

20903

SEARCH REQUEST FORM

Examiner # (Mandatory): 74141 Requester's Full Name: SABINA QAZI
Art Unit 1616 Location (Bldg/Room#): CM1 3607 Phone (circle 305 306 308) 3910
Serial Number: 09/331,357 Results Format Preferred (circle) PAPER DISK E-MAIL
Title of Invention Therapeutic Gestagens for the treatment of
Premenstrual Dysphoric disorder
Inventors (please provide full names): _____

Earliest Priority Date: 12/20/96 Germany

Keywords (include any known synonyms registry numbers, explanation of initialisms):

Please search -

Treatment of premenstrual dysphoric
disorder (PMDD) by steroids

Please see attached sheets

Search Topic:

Please write detailed statement of the search topic, and the concept of the invention. Describe as specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. You may include a copy of the abstract and the broadcast or most relevant claim(s).

STAFF USE ONLY

Searcher: <u>JOHN DANTZMAN</u>	Type of Search	Vendors (include cost where applicable)
Searcher Phone #: _____	_____ N.A. Sequence	_____ STN
Searcher Location: _____	_____ A.A. Sequence	_____ Questel/Orbit
Date Picked Up: _____	_____ Structure (#)	_____ Lexis/Nexis
Date Completed: <u>10-26-99</u>	_____ Bibliographic	_____ WWW/Internet
Clerical Prep Time: <u>20</u>	_____ Litigation1	_____ In-house sequence systems (list)
Terminal Time: <u>40</u>	_____ Fulltext	_____ Dialog
Number of Databases: _____	_____ Procurement	_____ Dr. Link
	_____ Other	_____ Westlaw
		_____ Other (specify) _____

=> D HIS

(FILE 'HOME' ENTERED AT 08:11:39 ON 26 OCT 1999)

FILE 'REGISTRY' ENTERED AT 08:12:28 ON 26 OCT 1999

L1 1 S DROSPIRENONE/CN
E CYPROTERONE ACETATE/CN
L2 4 S CYPROTERONE ACETATE?/CN
E DIENOGEST/CN
L3 2 S DIENOGEST?/CN
L4 5 S (ESTROGEN OR ETHINYLESTRADIOL OR ESTROGEN SULFAMATE OR
ESTRAD
E ESTROGEN/CN
E AESTROGEN/CN
E ETHINYLESTRADIOL/CN
E ESTROGEN SULFAMATE/CN
E ESTRATRIEN-3-AMIDOSULFONATE/CN

FILE 'HCAPLUS, BIOSIS, MEDLINE' ENTERED AT 08:35:25 ON 26 OCT 1999

L5 8153 S GESTAGEN OR DROSPIRENONE OR CYPROTERONE ACETATE OR
DIENOGEST?
L6 4829 S L1 OR L2 OR L3
L7 8456 S L5 OR L6
L8 160 S PREMENSTRUAL DYSPHORIC DISORDER OR PMDD
L9 1 S L5 AND L8
L10 1 S L6 AND L8
L11 5 S STEROID AND L8
L12 6 S L9-L11
L13 1 S L12 AND (L4 OR ?ESTRA?)
L14 0 S L12 AND ESTRATRIEN?
L15 6 S L9-L14

FILE 'EMBASE, PHIN, PHIC, WPIDS, JICST-EPLUS, LIFESCI, SCISEARCH, EMBAL,
DRUGNL, DRUGU, BIOTECHDS, BIOBUSINESS' ENTERED AT 08:50:47 ON 26 OCT 1999

L16 18 S LL5
L17 237 S L8
L18 0 S L16 AND L17
L19 9233 S GESTAGEN?
L20 3251 S PROGESTAT?
L21 12037 S L19 OR L20
L22 1 S L21 AND L17
L23 16127 S L5
L24 1 S L17 AND L23
L25 1 S L22 OR L24

FILE 'HCAPLUS, BIOSIS, MEDLINE' ENTERED AT 08:56:55 ON 26 OCT 1999

L26 13125 S GESTAGEN? OR PROGESTAT?
L27 1 S L26 AND L8
L28 0 S L27 NOT L15

=> d his

(FILE 'HOME' ENTERED AT 08:11:39 ON 26 OCT 1999)

FILE 'REGISTRY' ENTERED AT 08:12:28 ON 26 OCT 1999

L1 1 S DROSPIRENONE/CN
E CYPROTERONE ACETATE/CN
L2 4 S CYPROTERONE ACETATE?/CN
E DIENOGEST/CN
L3 2 S DIENOGEST?/CN
L4 5 S (ESTROGEN OR ETHINYLESTRADIOL OR ESTROGEN SULFAMATE OR
ESTRAD
E ESTROGEN/CN
E AESTROGEN/CN
E ETHINYLESTRADIOL/CN
E ESTROGEN SULFAMATE/CN
E ESTRATRIEN-3-AMIDOSULFONATE/CN

FILE 'HCAPLUS, BIOSIS, MEDLINE' ENTERED AT 08:35:25 ON 26 OCT 1999

L5 8153 S GESTAGEN OR DROSPIRENONE OR CYPROTERONE ACETATE OR
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L6 4829 S L1 OR L2 OR L3
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L9 1 S L5 AND L8
L10 1 S L6 AND L8
L11 5 S STEROID AND L8
L12 6 S L9-L11
L13 1 S L12 AND (L4 OR ?ESTRA?)
L14 0 S L12 AND ESTRATRIEN?
L15 6 S L9-L14

=> d bib abs hitstr

L15 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 1999 ACS

AN 1998:462694 HCAPLUS

DN 129:229265

TI Adrenergic receptors in **premenstrual dysphoric disorder**. II. Neutrophil .beta.2-adrenergic receptors: Gs protein coupling, phase of menstrual cycle and prediction of luteal phase symptom severity

AU Gurguis, George N. M.; Yonkers, Kimberly A.; Blakeley, Jaishri E.; Phan, Stephanie P.; Williams, Anita; Rush, A. John

CS The Department of Veterans Affairs Medical Center, Dallas, TX, 75216-7167, USA

SO Psychiatry Res. (1998), 79(1), 31-42
CODEN: PSRSDR; ISSN: 0165-1781

PB Elsevier Science Ireland Ltd.

DT Journal

LA English

AB Abnormal .beta.2-adrenergic receptor coupling to Gs protein is implicated in depressive disorders. **Steroid** hormones and antidepressants modulate .beta.-adrenergic receptor coupling, which may relate to the therapeutic efficacy of antidepressants. We examd. .beta.2-adrenergic receptors in 18 patients with **premenstrual dysphoric disorder (PMDD)**, in 15 control subjects during the follicular phase and in 12 patients during late luteal phase. Antagonist-measured receptor d., agonist-measured receptor d. in the

high- and low-conformational states and agonist affinity to both states were measured. Coupling indexes to Gs protein were detd. from agonist-displacement expts. Follicular .beta.2-adrenergic receptor d. was

higher in patients than in control subjects, with a trend for higher receptor d. in the high-conformational state. The phase of menstrual cycle had no effect on .beta.2-adrenergic receptor regulation in **PMDD**. Exploratory correlations showed that the KL/KH ratio was related to anxiety ratings in control subjects and %RH was correlated

with symptom severity in patients. In patients, follicular .beta.2-adrenergic receptor binding measures were correlated with luteal symptom severity. These findings suggest abnormal .beta.2-adrenergic receptor regulation in **PMDD**. Further exploration of the role of .beta.-adrenergic receptor kinase, sex **steroid** hormones and antidepressants on .beta.-adrenergic receptor regulation in **PMDD** is warranted.

=> d bib abs hitstr 2

L15 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 1999 ACS

AN 1998:430231 HCAPLUS

DN 129:77031

TI Therapeutic **gestagens** for **premenstrual dysphoric disorder**

IN Nashed, Norman

PA Schering A.-G., Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

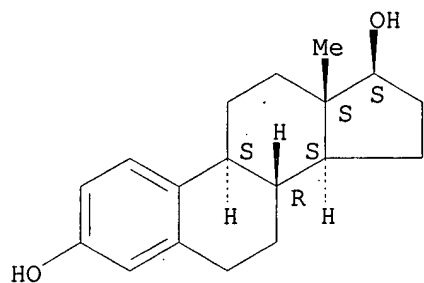
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19654609	A1	19980625	DE 1996-19654609	19961220
	WO 9827929	A2	19980702	WO 1997-DE3032	19971222
	WO 9827929	A3	19981105		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9859810	A1	19980717	AU 1998-59810	19971222
PRAI	DE 1996-19654609		19961220		
	WO 1997-DE3032		19971222		
AB	Gestagens such as drospirenone , cyproterone acetate , and dienogest (optionally in combination with natural or synthetic estrogens such as estradiol or ethynylestradiol) are useful in prepn. of medications for treatment of premenstrual dysphoric disorder , possibly owing to their antiandrogenic action. Thus, women with premenstrual dysphoric disorder , treated daily with 3 mg drospirenone and 30 .mu.g ethynylestradiol orally on days 1-21 of the menstrual cycle for 4-6 cycles, showed a lessening of symptoms related to mood, appetite, sleep, etc.				
IT	50-28-2, Estradiol , biological studies 50-28-2D, Estradiol , esters 57-63-6, Ethynylestradiol 427-51-0, Cyproterone acetate 979-32-8, Estradiol valerate 65928-58-7, Dienogest 67392-87-4, Drospirenone				
	RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (therapeutic gestagens for premenstrual dysphoric disorder)				
RN	50-28-2 HCAPLUS				
CN	Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)				

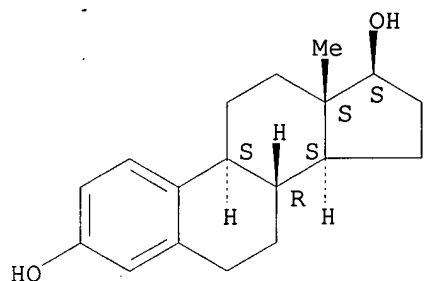
Absolute stereochemistry.



RN 50-28-2 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

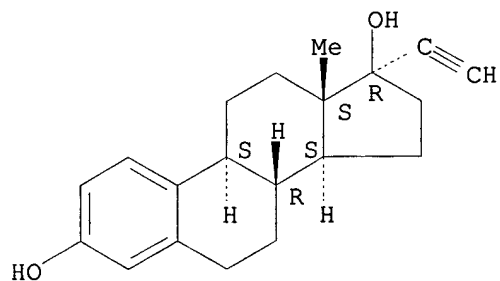
Absolute stereochemistry.



RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

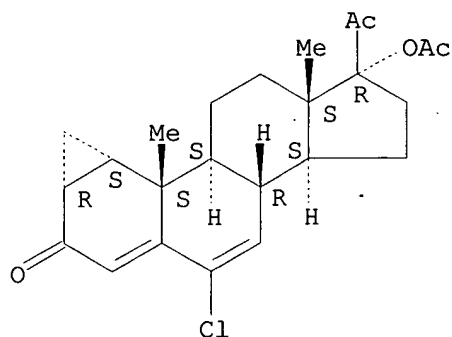
Absolute stereochemistry.



RN 427-51-0 HCAPLUS

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione,
17-(acetyloxy)-6-chloro-
1,2-dihydro-, (1.beta.,2.beta.)- (9CI) (CA INDEX NAME)

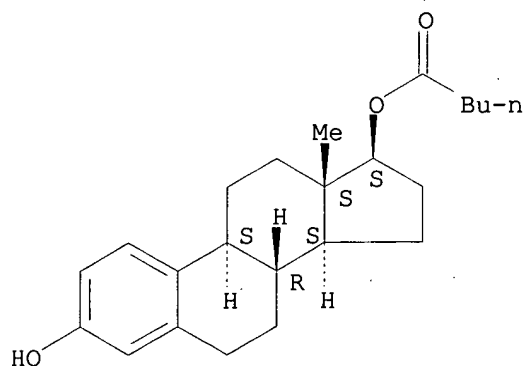
Absolute stereochemistry.



RN 979-32-8 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

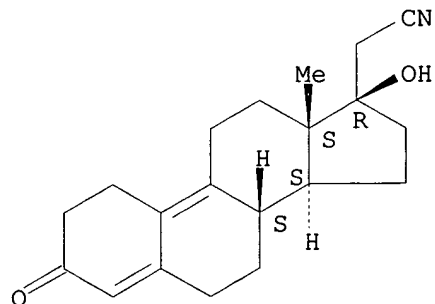
Absolute stereochemistry.



RN 65928-58-7 HCAPLUS

CN 19-Norpregna-4,9-diene-21-nitrile, 17-hydroxy-3-oxo-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



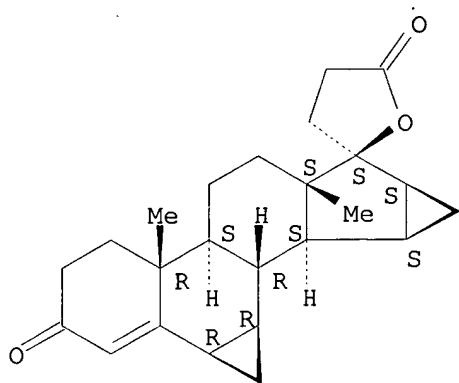
RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-

Searched by John Dantzman 308-4488

furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 3
'HITSTR' IS NOT A VALID FORMAT

=> d all 3

L15 ANSWER 3 OF 6 BIOSIS COPYRIGHT 1999 BIOSIS
 AN 1998:369642 BIOSIS
 DN PREV199800369642
 TI Adrenergic receptors in **premenstrual dysphoric disorder**. II. Neutrophil beta2-adrenergic receptors: Gs protein coupling, phase of menstrual cycle and prediction of luteal phase symptom severity.
 AU Gurguis, George N. M. (1); Yonkers, Kimberly A.; Blakeley, Jaishri E.; Phan, Stephanie P.; Williams, Anita; Rush, A. John
 CS (1) Dep. Veterans Affairs, Laboratory Clin. Neurosci., Mental Health, 4500 South Lancaster Road, Dallas, TX 75216-7167 USA
 SO Psychiatry Research, (June 2, 1998) Vol. 79, No. 1, pp. 31-42. ISSN: 0165-1781.
 DT Article
 LA English
 AB Abnormal beta2-adrenergic receptor coupling to Gs protein is implicated in depressive disorders. **Steroid** hormones and antidepressants modulate beta-adrenergic receptor coupling, which may relate to the therapeutic efficacy of antidepressants. We examined beta2-adrenergic receptors in 18 patients with **premenstrual dysphoric disorder (PMDD)**, in 15 control subjects during the follicular phase and in 12 patients during late luteal phase. Antagonist-measured receptor density, agonist-measured receptor density in the high- and low-conformational states and agonist affinity to both states were measured. Coupling indices to Gs protein were determined from agonist-displacement experiments. Follicular beta2-adrenergic receptor density was higher in patients than in control subjects, with a trend for higher receptor density in the high-conformational state. The phase of menstrual cycle had no effect on beta2-adrenergic receptor regulation in **PMDD**. Exploratory correlations showed that the KL/KH ratio was related to anxiety ratings in control subjects and %RH was correlated with symptom severity in patients. In patients, follicular beta2-adrenergic receptor binding measures were correlated with luteal symptom severity. These findings suggest abnormal beta2-adrenergic receptor regulation in **PMDD**. Further exploration of the role of beta-adrenergic receptor kinase, sex **steroid** hormones and antidepressants on beta-adrenergic receptor regulation in **PMDD** is warranted.
 CC Psychiatry - Psychopathology; Psychodynamics and Therapy *21002
 Circadian Rhythms and Other Periodic Cycles *07200
 Biophysics - Membrane Phenomena *10508
 Reproductive System - Pathology *16506
 Endocrine System - Gonads and Placenta *17006
 Endocrine System - Neuroendocrinology *17020
 Nervous System - Physiology and Biochemistry *20504
 Psychiatry - Psychophysiology *21003
 BC Hominidae 86215
 IT Major Concepts
 Psychiatry (Human Medicine, Medical Sciences)
 IT Diseases
 anxiety: behavioral and mental disorders; depression: behavioral and
 Searched by John Dantzman 308-4488

mental disorders; **premenstrual dysphoric disorder**: behavioral and mental disorders

IT Chemicals & Biochemicals
adrenergic receptors; neutrophil beta-2-adrenergic receptors; G-s protein

IT Miscellaneous Descriptors
luteal phase prediction; menstrual cycle phase; G-S protein coupling

ORGN Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name
human (Hominidae): patient

ORGN Organism Superterms
Animals; Chordates; Humans; Mammals; Primates; Vertebrates

=> d all 4

L15 ANSWER 4 OF 6 BIOSIS COPYRIGHT 1999 BIOSIS
AN 1990:113143 BIOSIS
DN BA89:62634
TI EFFECTS OF SYNESTROL ON THE COURSE OF A MYODYSTROPHIC PROCESS IN
DUCHENNE'S MYODYSTROPHY.
AU ZAVADENKO N N; KAMENNYKH L N
CS DEP. NERV. DIS., PEDIATR. FAC., N.I. PIROGOV SECOND MOSC. MED. INST.,
MOSCOW, USSR.
SO ZH NEVROPATOL PSIKHIATR IM S S KORSAKOVA, (1989) 89 (8), 41-45.
CODEN: ZNPIAP. ISSN: 0044-4588.
FS BA; OLD
LA Russian
AB Therapeutic effect of synestrol was investigated in 15 patients with
progressive muscular dystrophy of Duchenne (**PMDD**) aged 7 to 10
years, at stage II of the disease. The drug was given orally 1 mg twice a
day for 3 weeks. Control group consisted of 14 patients with **PMDD**
aged 7 to 9 years. By the end of the course a relief of motor constraint
was noted in 10 patients with functional test improved, tendon reflexes
increased. The results of clinico-electromyographic investigation
performed 6 months after the synestrol withdrawal evidenced progressive
course of the disease, though its rate was significantly lower in
synestrol-treated group. The treatment did not produce considerable
changes in the baseline hormonal profile (gonadotropins, prolactin,
sexual
steroids).
CC Genetics and Cytogenetics - Human *03508
Biochemical Studies - Sterols and Steroids 10067
Pathology, General and Miscellaneous - Therapy *12512
Muscle - General; Methods 17501
Muscle - Pathology *17506
Pharmacology - Clinical Pharmacology *22005
Pharmacology - Endocrine System *22016
Pharmacology - Muscle System *22022
BC Hominidae 86215
IT Miscellaneous Descriptors
CHILD HORMONE-DRUG ELECTROMYOGRAM
RN 84-16-2Q, 130-80-3Q (SYNESTROL)

=> d all 5

L15 ANSWER 5 OF 6 MEDLINE

AN 1998339446 MEDLINE

DN 98339446

TI Adrenergic receptors in **premenstrual dysphoric disorder**. II. Neutrophil beta2-adrenergic receptors: Gs protein coupling, phase of menstrual cycle and prediction of luteal phase symptom severity.

AU Gurguis G N; Yonkers K A; Blakeley J E; Phan S P; Williams A; Rush A J

CS The Department of Veterans Affairs Medical Center, Dallas, TX, USA.

SO PSYCHIATRY RESEARCH, (1998 Jun 2) 79 (1) 31-42.

Journal code: QC4. ISSN: 0165-1781.

CY Ireland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199812

AB Abnormal beta2-adrenergic receptor coupling to Gs protein is implicated in

depressive disorders. **Steroid** hormones and antidepressants modulate beta-adrenergic receptor coupling, which may relate to the therapeutic efficacy of antidepressants. We examined beta2-adrenergic receptors in 18 patients with **premenstrual dysphoric disorder (PMDD)**, in 15 control subjects during the follicular phase and in 12 patients during late luteal phase. Antagonist-measured receptor density, agonist-measured receptor density

in the high- and low-conformational states and agonist affinity to both states were measured. Coupling indices to Gs protein were determined from agonist-displacement experiments. Follicular beta2-adrenergic receptor density was higher in patients than in control subjects, with a trend for higher receptor density in the high-conformational state. The phase of menstrual cycle had no effect on beta2-adrenergic receptor regulation in **PMDD**. Exploratory correlations showed that the K(L)/K(H) ratio was related to anxiety ratings in control subjects and %R(H) was correlated with symptom severity in patients. In patients, follicular beta2-adrenergic receptor binding measures were correlated with luteal symptom severity. These findings suggest abnormal beta2-adrenergic receptor regulation in **PMDD**. Further exploration of the role of beta-adrenergic receptor kinase, sex **steroid** hormones and antidepressants on beta-adrenergic receptor regulation in **PMDD** is warranted.

CT Check Tags: Female; Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, Non-P.H.S.

Adult

Anxiety: BL, blood

*Anxiety: PP, physiopathology

Case-Control Studies

Depression: BL, blood

*Depression: PP, physiopathology

Follicular Phase: PH, physiology

*G-Proteins: PH, physiology

Iodine Radioisotopes: DU, diagnostic use

Irritable Mood: PH, physiology

Luteal Phase: PH, physiology

Searched by John Dantzman

308-4488

Middle Age
Pindolol: AA, analogs & derivatives
Pindolol: DU, diagnostic use
Premenstrual Syndrome: BL, blood
*Premenstrual Syndrome: PP, physiopathology
Protein Binding: PH, physiology
Radioligand Assay
Receptors, Adrenergic, beta-2: CH, chemistry
*Receptors, Adrenergic, beta-2: PH, physiology
Regression Analysis
Severity of Illness Index
Up-Regulation (Physiology): PH, physiology
RN 13523-86-9 (Pindolol); 83498-72-0 (Iodocyanopindolol)
CN 0 (G-Proteins); 0 (Iodine Radioisotopes); 0 (Receptors, Adrenergic, beta-2)

=> d all 6

L15 ANSWER 6 OF 6 MEDLINE
AN 90071258 MEDLINE
DN 90071258
TI [Effect of sinestrol on the course of the myodystrophic process in progressive Duchenne muscular dystrophy].
Issledovanie vliianiia sinestrola na techenie miostrofii cheskogo protsessa pri progressivuiushchei myshechnoi distrofii Diushenna.
AU Zavadenko N N; Kamennykh L N
SO ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, (1989) 89 (8) 41-5.
Journal code: Y9Y. ISSN: 0044-4588.
CY USSR
DT (CLINICAL TRIAL)
(CONTROLLED CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
LA Russian
FS Priority Journals
EM 199003
AB Therapeutic effect of sinestrol was investigated in 15 patients with progressive muscular dystrophy of Duchenne (**PMDD**) aged 7 to 10 years, at stage II of the disease. The drug was given orally 1 mg twice a day for 3 weeks. Control group consisted of 14 patients with **PMDD** aged 7 to 9 years. By the end of the course a several relief of motor constraint was noted in 10 patients with functional tests improved, tendon reflexes increased. The results of clinico-electromyographic investigation performed 6 months after the sinestrol withdrawal evidenced progressive course of the disease, though its rate was significantly lower in sinestrol-treated group. The treatment did not produce considerable changes in the baseline hormonal profile (gonadotropins, prolactin, sexual **steroids**).
CT Check Tags: Female; Human; Male
Administration, Oral
Child
Clinical Trials
*Dienestrol: AD, administration & dosage
Drug Administration Schedule
English Abstract
*Muscle Contraction: DE, drug effects
*Muscular Dystrophy: DT, drug therapy
Muscular Dystrophy: PP, physiopathology
*Phenols: AD, administration & dosage
Time Factors
RN 84-17-3 (Dienestrol)
CN 0 (Phenols)

=> D ALL

L25 ANSWER 1 OF 1 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD

AN 1998-388787 [34] WPIDS

DNC C1998-117708

TI Use of **gestagens** to treat pre-menstrual dysphoric disorders, -
including **drospirenone**, **cyproterone acetate**
and **dienogest**, preferably in combination with ethynyl oestradiol
or oestrogen sulphamate, oestradiol, oestradiol valerate or other
oestradiol ester(s).

DC B01

IN NASHED, N

PA (SCHD) SCHERING AG

CYC 79

PI DE 19654609 A1 19980625 (199834)* 4p A61K031-57

WO 9827929 A2 19980702 (199834) DE A61K000-00

RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA
PT SD SE SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DK EE ES FI GB GE GH
HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
ZW

AU 9859810 A 19980717 (199848) A61K038-00

ADT DE 19654609 A1 DE 1996-19654609 19961220; WO 9827929 A2 WO 1997-DE3032
19971222; AU 9859810 A AU 1998-59810 19971222

FDT AU 9859810 A Based on WO 9827929

PRAI DE 1996-19654609 19961220

IC ICM A61K000-00; A61K031-57; A61K038-00

ICS A61K031-565

AB DE 19654609 A UPAB: 19980916

Use of **gestagens** to treat pre-menstrual dysphoric disorders (**PMDD**) is new.
(UUSEU)

Gestagens are used during the luteal phase of the female
menstrual cycle.

The dosage 0.5-5 mg/day **drospirenone**, 0.010-0.05 mg/day
ethynyl oestradiol, 1.0-3.0 mg/day oestradiol.

(UPREFERRED MATERIALSU)

Drospirenone, **cyproterone acetate** and
dienogest are preferred compounds.

The combinations include the synthetic oestrogen ethynyl oestradiol
and oestrogen sulphamate, as well as natural oestrogens such as
oestradiol, oestradiol valerate or other oestradiol esters.

The luteal phase is defined as days 10-28 of the menstrual cycle.
(UEXAMPLEU)

In a clinical trial it was observed that women taking 3 mg
drospirenone and 30 mu g ethynyl estradiol (over a 4 cycle period
from days 1-21) found significant improvement. (MSS)

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B01-A02; B14-N14

=> d his

(FILE 'HOME' ENTERED AT 14:37:43 ON 24 OCT 1999)

FILE 'HCAPLUS' ENTERED AT 14:38:24 ON 24 OCT 1999

L1 47 S NASHED N?/AU
L2 1 S L1 AND ?MENSTRU?
L3 0 S L1 AND PMDD
L4 2 S L1 AND ?STEROID?
L5 1 S L1 AND ?GESTAG?
L6 3 S L2-L5
SELECT RN L6 1-3

FILE 'REGISTRY' ENTERED AT 14:39:14 ON 24 OCT 1999

FILE 'HCAPLUS' ENTERED AT 14:39:16 ON 24 OCT 1999

L7 FILE 'REGISTRY' ENTERED AT 14:39:28 ON 24 OCT 1999
33 S E1-33

L8 FILE 'HCAPLUS' ENTERED AT 14:39:38 ON 24 OCT 1999
3 S L6 AND L7

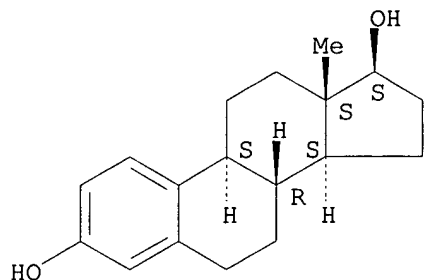
INVENTOR SEARCH

=> d bib abs hitstr

L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 1999 ACS
AN 1998:430231 HCAPLUS
DN 129:77031
TI Therapeutic **gestagens** for **premenstrual** dysphoric
disorder
IN **Nashed, Norman**
PA Schering A.-G., Germany
SO Ger. Offen., 4 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19654609	A1	19980625	DE 1996-19654609	19961220
	WO 9827929	A2	19980702	WO 1997-DE3032	19971222
	WO 9827929	A3	19981105		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9859810	A1	19980717	AU 1998-59810	19971222
PRAI	DE 1996-19654609		19961220		
	WO 1997-DE3032		19971222		
AB	Gestagens such as drospirenone, cyproterone acetate, and dienogest (optionally in combination with natural or synthetic estrogens such as estradiol or ethynylestradiol) are useful in prepn. of medications for treatment of premenstrual dysphoric disorder, possibly owing to their antiandrogenic action. Thus, women with premenstrual dysphoric disorder, treated daily with 3 mg drospirenone and 30 .mu.g ethynylestradiol orally on days 1-21 of the menstrual cycle for 4-6 cycles, showed a lessening of symptoms related to mood, appetite, sleep, etc.				
IT	50-28-2, Estradiol, biological studies 50-28-2D, Estradiol, esters 57-63-6, Ethynylestradiol 427-51-0, Cyproterone acetate 979-32-8, Estradiol valerate 65928-58-7, Dienogest 67392-87-4, Drospirenone RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (therapeutic gestagens for premenstrual dysphoric disorder)				
RN	50-28-2 HCAPLUS				
CN	Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)				

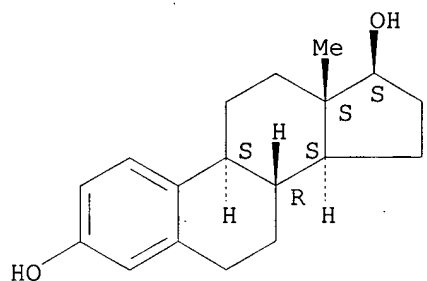
Absolute stereochemistry.



RN 50-28-2 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

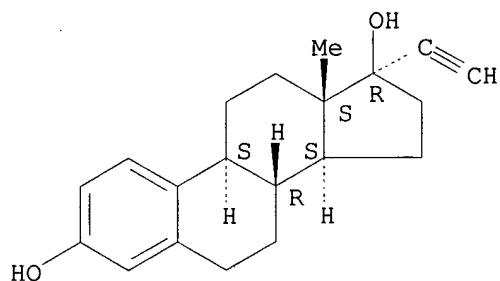
Absolute stereochemistry.



RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

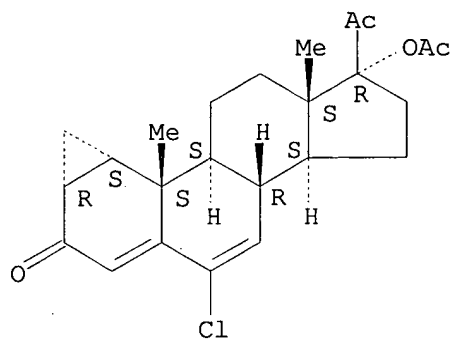
Absolute stereochemistry.



RN 427-51-0 HCAPLUS

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione,
17-(acetyloxy)-6-chloro-
1,2-dihydro-, (1.beta.,2.beta.)- (9CI) (CA INDEX NAME)

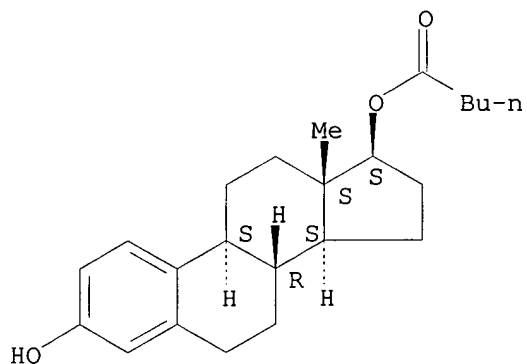
Absolute stereochemistry.



RN 979-32-8 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

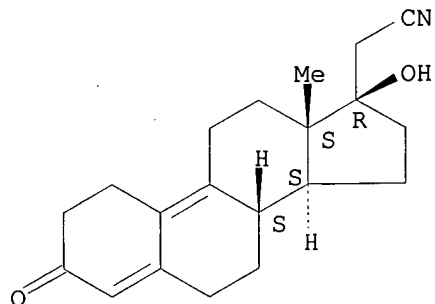
Absolute stereochemistry.



RN 65928-58-7 HCAPLUS

CN 19-Norpregna-4,9-diene-21-nitrile, 17-hydroxy-3-oxo-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

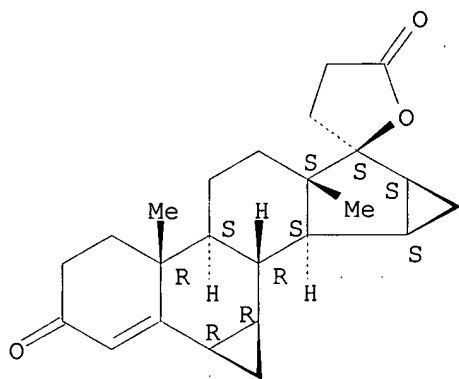


RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-
Searched by John Dantzman 308-4488

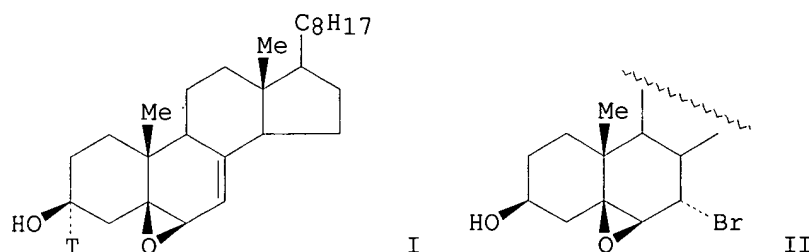
furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



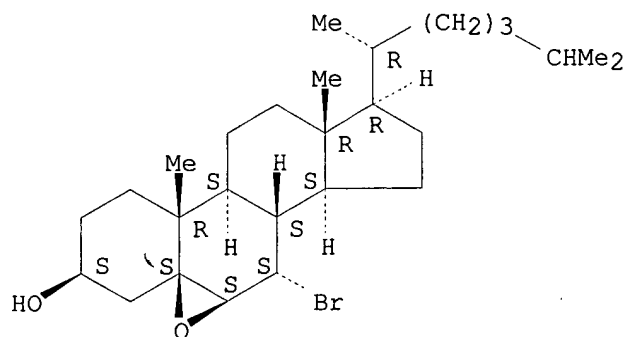
=> d bib abs hitstr 2

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 1999 ACS
AN 1986:572837 HCAPLUS
DN 105:172837
TI Synthesis of tritium labeled 7-dehydrocholesterol 5.beta.,6.beta.-oxide
AU Michaud, Dennis P.; **Nashed, Nashaat T.**; Jerina, Donald M.
CS Lab. Bioorg. Chem., Natl. Inst. Arthritis, Diabetes Dig. Kidney Dis.,
Bethesda, MD, 20205, USA
SO J. Labelled Compd. Radiopharm. (1986), 23(4), 371-6
CODEN: JLCRD4; ISSN: 0362-4803
DT Journal
LA English
OS CASREACT 105:172837
GI



AB Tritiated 7-dehydrocholesterol I was prepd. in high specific activity. Thus, 7.alpha.-bromocholesterol II was oxidized to give the corresponding 3-oxo deriv., which underwent borotritide redn. in a special buffer-org. solvent system to minimize undesired rearrangement to regenerate the 3.beta.-hydroxyl group. Base-assisted elimination produced I.
IT **95841-70-6**
RL: RCT (Reactant)
(oxidn. and dehydrobromination of)
RN 95841-70-6 HCAPLUS
CN Cholestan-3-ol, 7-bromo-5,6-epoxy-, (3.beta.,5.beta.,6.beta.,7.alpha.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



Searched by John Dantzman

308-4488

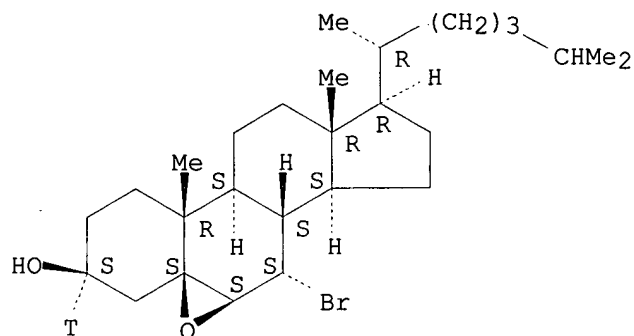
IT 104825-85-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydrobromination of)

RN 104825-85-6 HCAPLUS

CN Cholestan-3- α -ol, 7-bromo-5,6-epoxy-,
(3. β .,5. β .,6. β .,7. α .)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



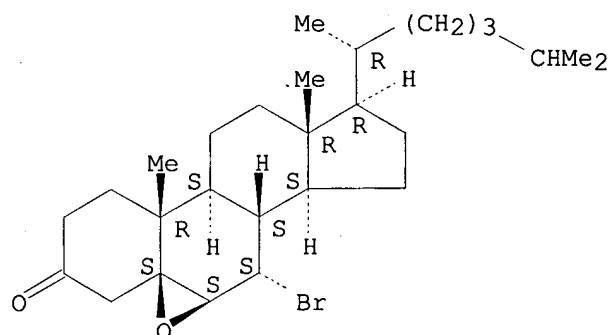
IT 104825-82-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydride redn. of)

RN 104825-82-3 HCAPLUS

CN Cholestan-3-one, 7-bromo-5,6-epoxy-, (5. β .,6. β .,7. α .)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



IT 95841-70-6P 95841-71-7P 104825-83-4P
104825-84-5P 104825-86-7P 104825-87-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

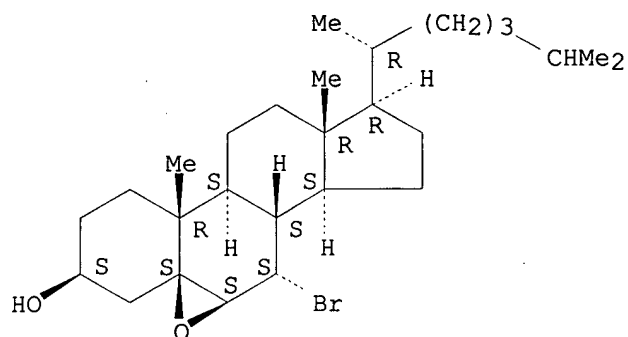
RN 95841-70-6 HCAPLUS

CN Cholestan-3-ol, 7-bromo-5,6-epoxy-, (3. β .,5. β .,6. β .,7. α .)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Searched by John Dantzman

308-4488

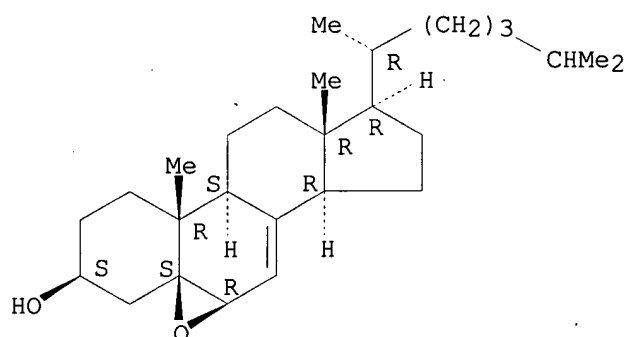


RN 95841-71-7 HCAPLUS

CN Cholest-7-en-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA
INDEX

NAME)

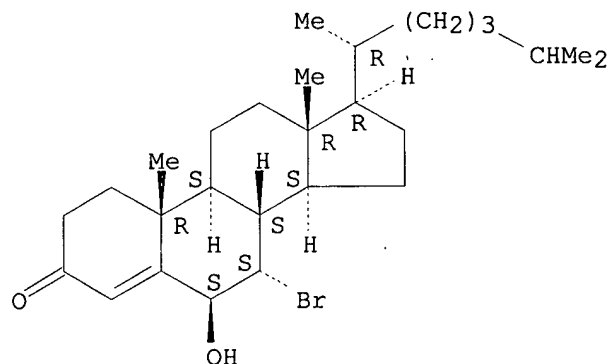
Absolute stereochemistry.



RN 104825-83-4 HCAPLUS

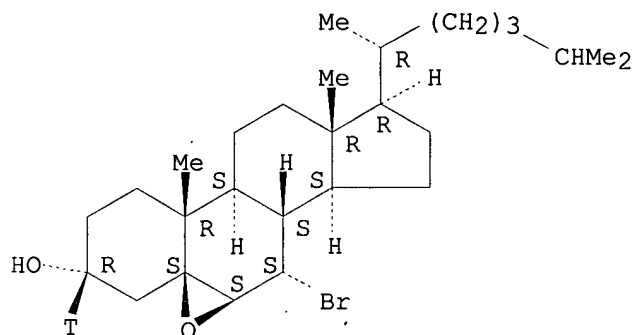
CN Cholest-4-en-3-one, 7-bromo-6-hydroxy-, (6.beta.,7.alpha.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



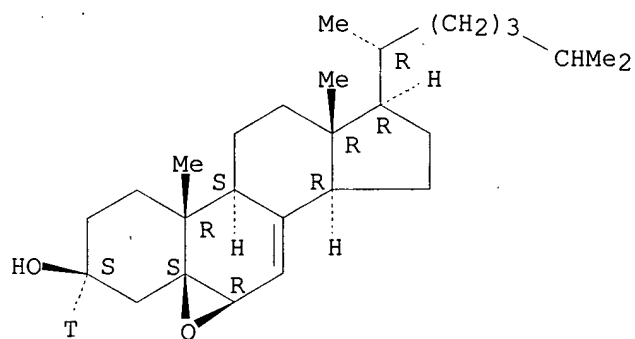
RN 104825-84-5 HCAPLUS
CN Cholestan-3-t-3-ol, 7-bromo-5,6-epoxy-,
(3.alpha.,5.beta.,6.beta.,7.alpha.)-
) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



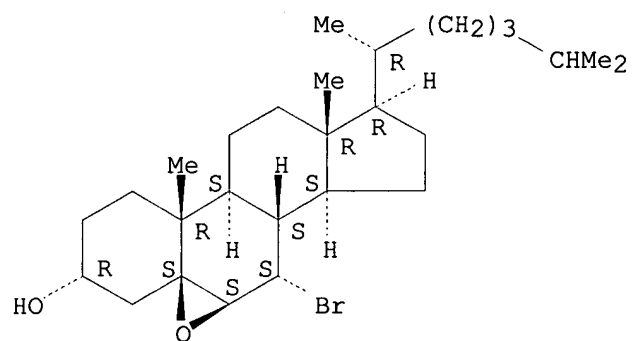
RN 104825-86-7 HCAPLUS
CN Cholest-7-en-3-t-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



RN 104825-87-8 HCAPLUS
CN Cholestan-3-ol, 7-bromo-5,6-epoxy-, (3.alpha.,5.beta.,6.beta.,7.alpha.)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 3

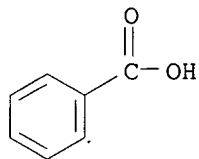
L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 1999 ACS
AN 1985:221097 HCAPLUS
DN 102:221097
TI Stereoselective synthesis and solvolytic behavior of the isomeric
7-dehydrocholesterol 5,6-oxides
AU Michaud, Dennis P.; **Nashed, Nashaat T.**; Jerina, Donald M.
CS Lab. Bioorg. Chem., NIADDK, Bethesda, MD, 20205, USA
SO J. Org. Chem. (1985), 50(11), 1835-40
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 102:221097
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Cholesterol oxide hydrolase is a mammalian enzyme which catalyzes the hydration of 5-unsatd. sterol oxides to 5,6-glycols in the liver, and isomeric 7-dehydrocholesterol 5,6-oxides were prepd. as mechanistic probes of the action of the enzyme. Direct epoxidn. of 7-dehydrocholesterol with 3-ClC6H4C(O)O2H in the presence of aq. buffer stereoselectively gave 89% .alpha.-oxide I. Synthesis of the .beta.-oxide II was more difficult in that formation of an intermediate bromohydrin with appropriate stereochem. proved unsatisfactory, but 7.alpha.-bromocholesteryl benzoate undergoes selective .beta.-epoxidn. and subsequent treatment with KOCMe3 to give II. Both epoxides undergo cis addn. of BzOH in CHCl3 at the allylic carbon C-6 and trans addn. of HSCH2CH2OH in base at the same position. Aq. acid hydrolysis of I produced triol III and diene diol IV, which can further dehydrate to the trienol V. Under identical conditions II hydrolyzes to glycol VI. Both epoxides, particularly the .beta.-oxide II, were effective inhibitors of cholesterol oxide hydrolase.
IT 60-24-2 65-85-0, reactions
RL: RCT (Reactant)
(addn. reactions of, with epoxycholestenol isomers)
RN 60-24-2 HCAPLUS
CN Ethanol, 2-mercapto- (8CI, 9CI) (CA INDEX NAME)

HO-CH2-CH2-SH

RN 65-85-0 HCAPLUS
CN Benzoic acid (7CI, 8CI, 9CI) (CA INDEX NAME)



IT 604-32-0

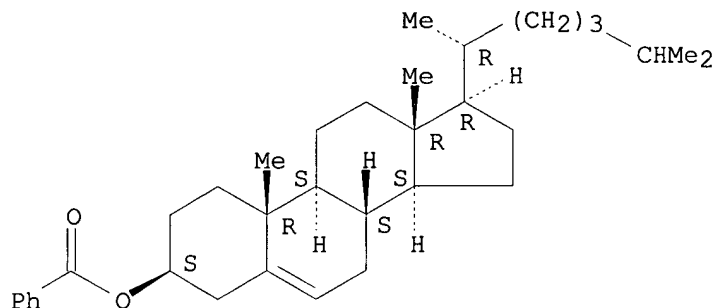
RL: RCT (Reactant)

(allylic bromination of)

RN 604-32-0 HCAPLUS

CN Cholest-5-en-3-ol (3.beta.)-, benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 434-16-2

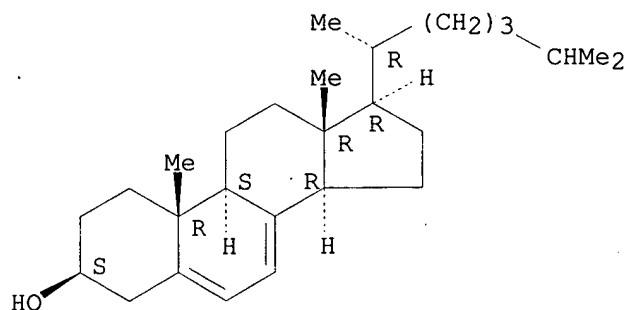
RL: RCT (Reactant)

(epoxidn. of)

RN 434-16-2 HCAPLUS

CN Cholesta-5,7-dien-3-ol, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 15361-40-7P 95841-67-1P 95841-68-2P

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, by hydrolysis of epoxycholestenol)

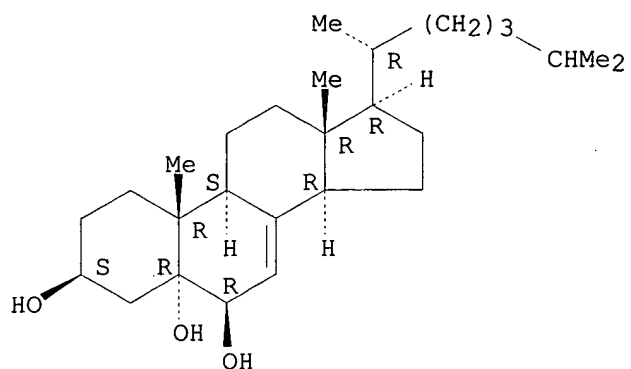
RN 15361-40-7 HCAPLUS

CN Cholest-7-ene-3,5,6-triol, (3.beta.,5.alpha.,6.beta.)- (9CI) (CA INDEX NAME)

Searched by John Dantzman

308-4488

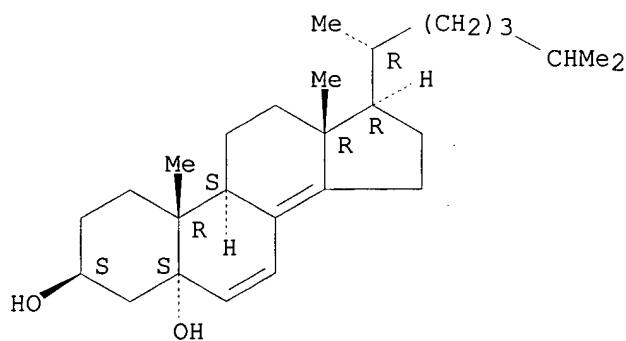
Absolute stereochemistry.



RN 95841-67-1 HCAPLUS

CN Cholesta-6,8(14)-diene-3,5-diol, (3.β.,5.α.)- (9CI) (CA INDEX NAME)

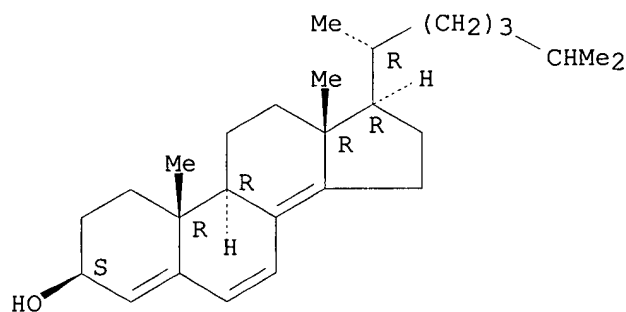
Absolute stereochemistry.



RN 95841-68-2 HCAPLUS

CN Cholesta-4,6,8(14)-trien-3-ol, (3.β.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 55467-47-5

Searched by John Dantzman

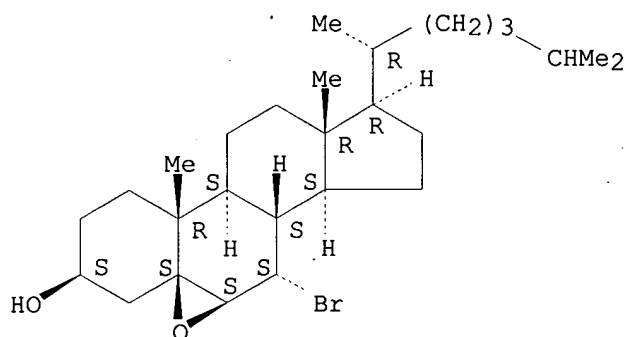
308-4488

RL: PROC (Process)
(inhibition of, by epoxycholestenol isomer)
RN 55467-47-5 HCAPLUS
CN Hydratase, cholesterol 5.alpha.,6.alpha.-epoxide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

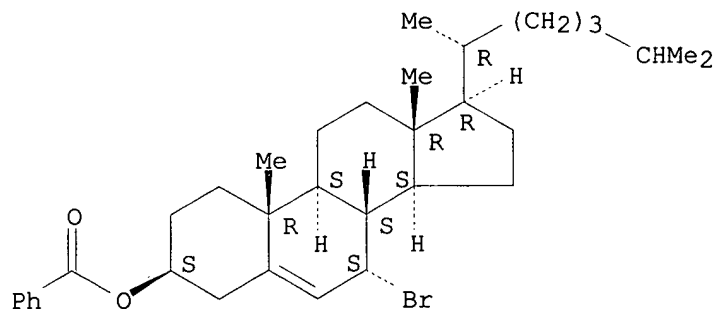
IT **95841-70-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and debromination and dehydrobromination of)
RN 95841-70-6 HCAPLUS
CN Cholestan-3-ol, 7-bromo-5,6-epoxy-, (3.beta.,5.beta.,6.beta.,7.alpha.)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **26048-46-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and epoxidn. of)
RN 26048-46-4 HCAPLUS
CN Cholest-5-en-3-ol, 7-bromo-, benzoate, (3.beta.,7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

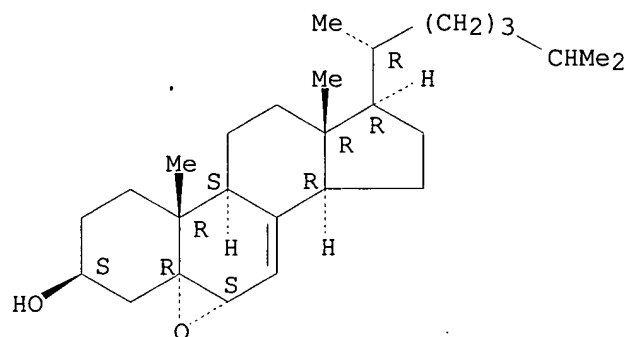


IT **95841-65-9P 95841-71-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis and addn. reactions of)
RN 95841-65-9 HCAPLUS
CN Cholest-7-en-3-ol, 5,6-epoxy-, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Searched by John Dantzman

308-4488

Absolute stereochemistry.



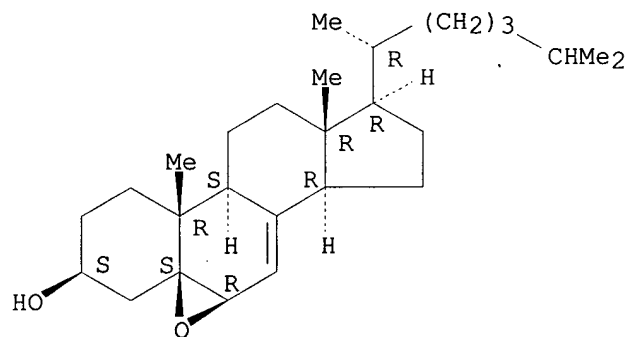
RN 95841-71-7 HCAPLUS

CN Cholest-7-en-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA

INDEX

NAME)

Absolute stereochemistry.



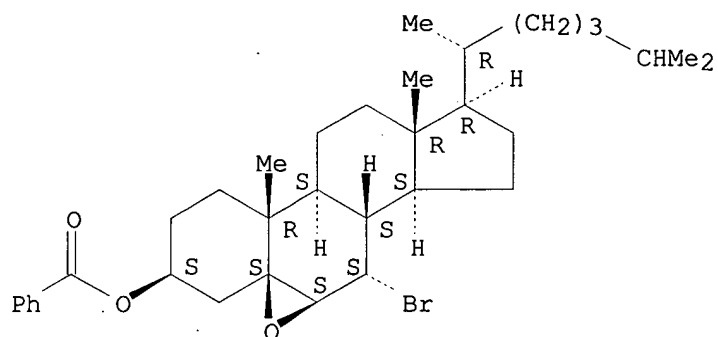
IT 95841-69-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and sapon. of)

RN 95841-69-3 HCAPLUS

CN Cholestan-3-ol, 7-bromo-5,6-epoxy-, benzoate,
(3.beta.,5.beta.,6.beta.,7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



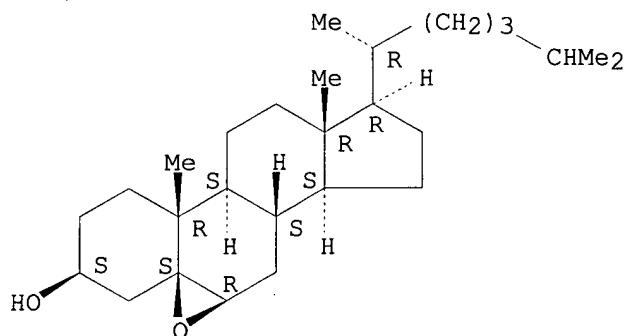
IT 4025-59-6P 63139-17-3P 95841-66-0P
 95841-72-8P 95841-73-9P 95841-74-0P
 95864-11-2P 95910-37-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 4025-59-6 HCAPLUS

CN Cholestan-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

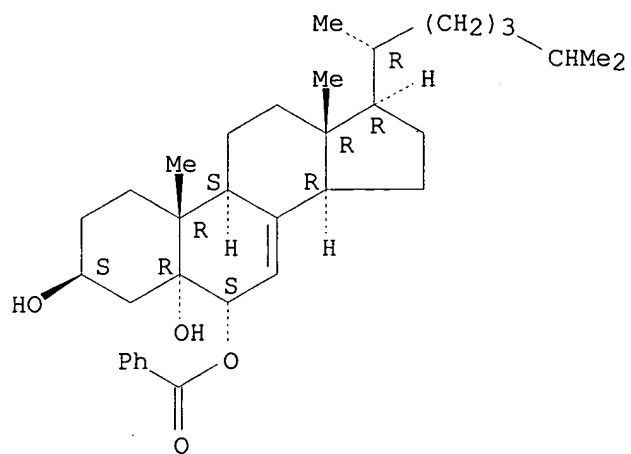
Absolute stereochemistry.



RN 63139-17-3 HCAPLUS

CN Cholest-7-ene-3,5,6-triol, 6-benzoate, (3.beta.,5.alpha.,6.alpha.)- (9CI)
 (CA INDEX NAME)

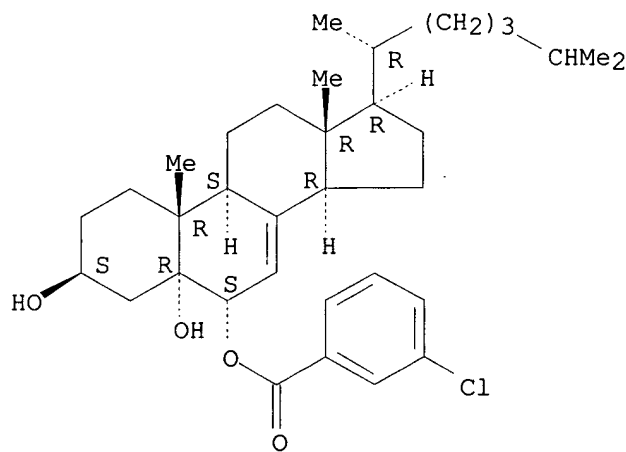
Absolute stereochemistry.



RN 95841-66-0 HCAPLUS

CN Cholest-7-ene-3,5,6-triol, 6-(3-chlorobenzoate),
(3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

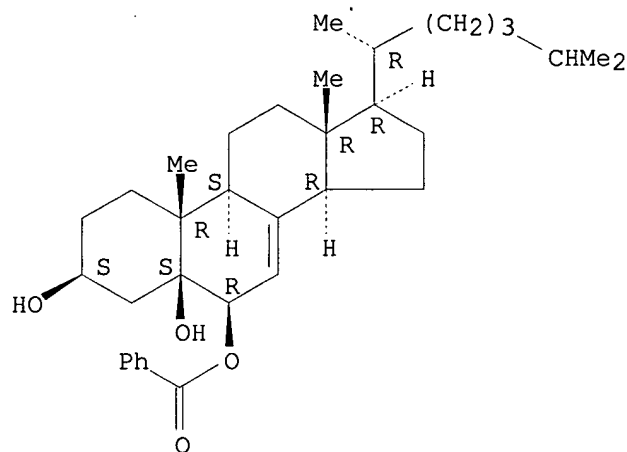
Absolute stereochemistry.



RN 95841-72-8 HCAPLUS

CN Cholest-7-ene-3,5,6-triol, 6-benzoate, (3.beta.,5.beta.,6.beta.)- (9CI)
(CA INDEX NAME)

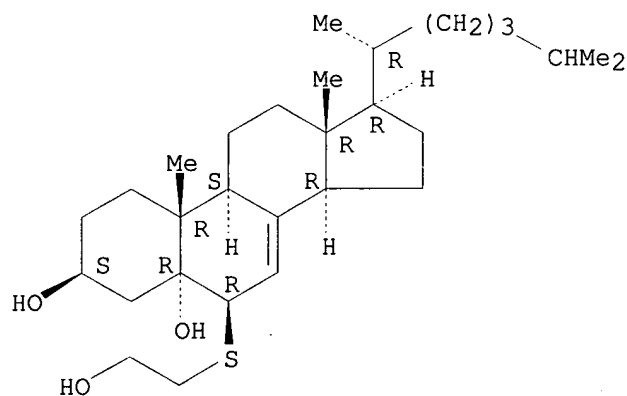
Absolute stereochemistry.



RN 95841-73-9 HCAPLUS

CN Cholest-7-ene-3,5-diol, 6-[(2-hydroxyethyl)thio]-,
(3.beta.,5.alpha.,6.beta.)- (9CI) (CA INDEX NAME)

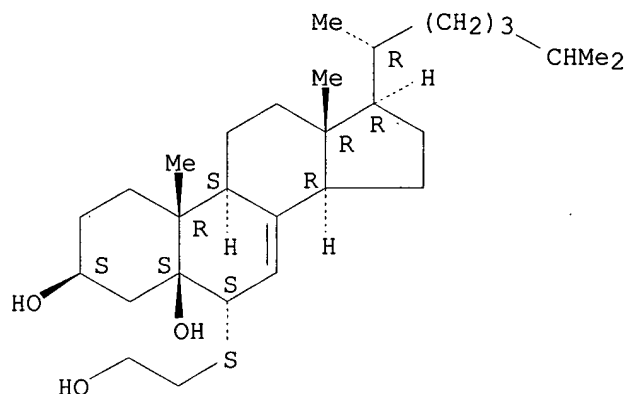
Absolute stereochemistry.



RN 95841-74-0 HCAPLUS

CN Cholest-7-ene-3,5-diol, 6-[(2-hydroxyethyl)thio]-,
(3.beta.,5.beta.,6.alpha.)- (9CI) (CA INDEX NAME)

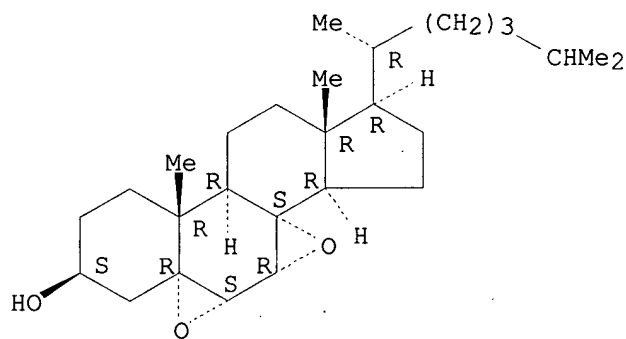
Absolute stereochemistry.



RN 95864-11-2 HCAPLUS

CN Cholestan-3-ol, 5,6:7,8-diepoxy-,
(3.beta.,5.alpha.,6.alpha.,7.alpha.,8.alpha.)- (9CI) (CA INDEX NAME)

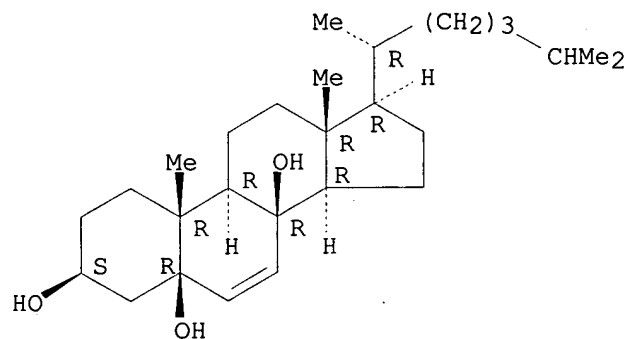
Absolute stereochemistry.



RN 95910-37-5 HCAPLUS

CN Cholest-6-ene-3,5,8-triol, (3.beta.,5.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



QAZI

09/331397

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Searched by John Dantzman

308-4488

=> d bib abs hitstr 1

120 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:362399 HCAPLUS

DN 131:28058

TI Uses of progesterone in clinical practice

AU Warren, Michelle P.; Shantha, Shanmugan

CS Departments of Medicine and Obstetrics and Gynecology College of Physicians and Surgeons, Columbia University, New York, NY, USA

SO Int. J. Fertil. Women's Med. (1999), 44(2), 96-103

CODEN: IJWMFW

PB Medical Science Publishing International

DT Journal; General Review

LA English

AB A review with 19 refs. Progesterone is the natural **progestagen** produced by the corpus luteum during the luteal phase. It is absorbed when administered orally, but is greater than 90% metabolized during the first hepatic pass. This greatly limits the efficacy of once-daily administration and also results in unphysiol. high levels of progesterone metabolites, particularly those reduced at the 5-a position. These metabolites can cause dizziness and drowsiness to the point of preventing the operation of a motor vehicle. Synthetic progestins, such as medroxyprogesterone acetate and norethindrone acetate (NETA), have been specifically designed to resist enzymic degrdn. and remain active after oral administration. However, these compds. exert undesirable effects on the liver and often cause severe psychol. side effects. The permeability of the skin does not allow for administration of progesterone in the quantities normally produced by the corpus luteum, i.e., up to 25 mg/day during the mid-luteal phase. To avoid this problem, synthetic progestins such as NETA have been administered transdermally. These compds., though, just like synthetic **estrogens** administered non-orally, retain undesirable hepatic effects even when administered transdermally. Transvaginal administration of progesterone is a practical non-oral route available for administering progesterone. Early experience was gained with vaginal suppositories, which lack manufg. controls. Recently, a new progesterone gel formulation has been designed for vaginal use. The clin. acceptability of this product has been enhanced by the bioadhesive characteristics of its polycarbophil-based gel, which conveys controlled and sustained-released properties. Investigations have shown that because of local direct vagina-to-uterus transport, which results in a preferential uterine uptake of progesterone, this formulation given in conjunction with physiol. amts. of **estradiol** produces endometrial changes similar to those seen in the luteal phase, despite plasma progesterone levels that remain subphysiol. Studies in infertility show that vaginal progesterone in this form allows secretory transformation of the endometrium and the development of pregnancy despite providing low systemic progesterone concns. Fewer side effects occur when used for hormone replacement than typically encountered with progestins and oral progesterone. Uses in patients with infertility and hypoenestrogenism and secondary amenorrhea are reviewed.

IT 57-83-0, Progesterone, biological studies

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

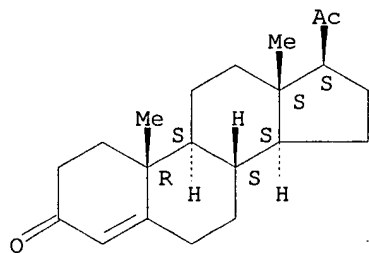
(uses of progesterone in women with gynecol. disorders)

RN 57-83-0 HCAPLUS

CN Pregn-4-ene-3,20-dione (9CI) (CA INDEX NAME)

Absolute stereochemistry.

QAZI 09/619,493



RE.CNT 6

RE

- (1) Dennerstein, L; Br J Med 1985, V290, P1617 MEDLINE
 - (3) Freeman, E; Clin Pharmacol 1992, V33, P293 MEDLINE
 - (4) Panay, N; Hum Reprod Update 1997, V3(2), P159 HCAPLUS
 - (5) Ross, D; Am J Obstet Gynecol 1997, V177, P937 HCAPLUS
 - (6) Warren, M; Am J Obstet Gynecol 1999, V180, P42 HCAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ind

L20 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2001 ACS
 CC 2-0 (Mammalian Hormones)
 Section cross-reference(s): 1
 ST review progesterone progestogens gynecol disorder
 IT **Ovarian cycle**

```
(premenstrual syndrome; uses of progesterone in
      women with gynecol. disorders)
```


 IT Amenorrhea
 Drug delivery systems
 Hormone replacement therapy

```
(uses of progesterone in women with gynecol. disorders)
```


 IT Progestogens
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or
 effector, except adverse); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)

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(uses of progesterone in women with gynecol. disorders)
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 IT **57-83-0, Progesterone, biological studies**
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or
 effector, except adverse); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)

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(uses of progesterone in women with gynecol. disorders)
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=> d bib abs hitstr 2

L20 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AN 1995:849296 HCAPLUS

DN 123:266109

TI Transdermal therapeutic systems containing sex steroids

IN Lipp, Ralph; Guenther, Clemens; Riedl, Jutta; Taeuber, Ulrich

PA Schering A.-G., Germany

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

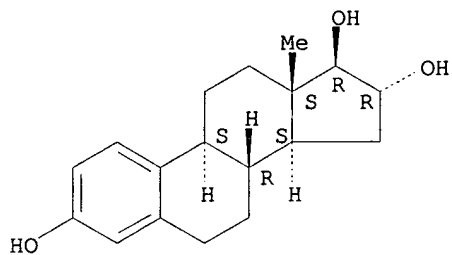
DT Patent

LA German

FAN.CNT 1

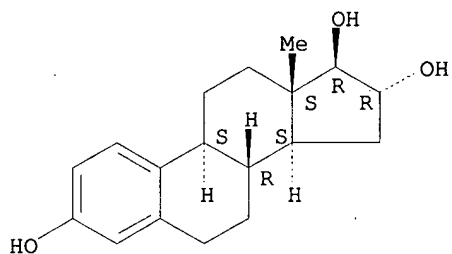
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PI	DE 4405898	A1	19950824	DE 1994-4405898	19940218
	CA 2183543	AA	19950824	CA 1995-2183543	19950209
	WO 9522322	A1	19950824	WO 1995-EP483	19950209
	W: AU, CA, HU, JP, KR, NO, NZ, RU, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9517066	A1	19950904	AU 1995-17066	19950209
	EP 744944	A1	19961204	EP 1995-908925	19950209
	EP 744944	B1	19991103		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	HU 74876	A2	19970228	HU 1996-2283	19950209
	JP 09508912	T2	19970909	JP 1995-521561	19950209
	AT 186213	E	19991115	AT 1995-908925	19950209
	ES 2140658	T3	20000301	ES 1995-908925	19950209
	AU 9896967	A1	19990211	AU 1998-96967	19981208
	AU 724308	B2	20000914		
PRAI	DE 1994-4405898	A	19940218		
	AU 1995-17066	A3	19950209		
	WO 1995-EP483	W	19950209		
AB	Transdermal therapeutic systems contg. sex steroids (other than 3-ketodesogestrel) are described which include di-Me isosorbide as solvent to improve the skin penetration of the steroid. Systems contg. nonflowable gels are excluded. Thus, gestoden 5.0 and di-Me isosorbide 10.0 g were dissolved in 170 g of a 50% soln. of poly(acrylic acid) adhesive in acetone/benzine and the soln. was spread on a polyester film to a d. of 100 g/m2 (after drying).				
IT	50-27-1, Estriol 50-27-1D, Estriol, esters 50-28-2, Estradiol, biological studies 50-28-2D , Estradiol, esters 51-98-9, Norethisterone acetate 57-63-6, 17.alpha.-Ethinylestradiol 57-63-6D, 17.alpha.-Ethinylestradiol, esters 68-22-4, Norethisterone 72-33-3, Mestranol 72-33-3D, Mestranol, esters 797-63-7, Levonorgestrel 54024-22-5, Desogestrel 60282-87-3, Gestodene 116229-13-1 116229-13-1D , esters 135768-83-1 135768-83-1D, esters RL: BAC (Biological activity or effector, except adverse); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (transdermal therapeutic systems contg. sex steroids)				
RN	50-27-1 HCAPLUS				
CN	Estra-1,3,5(10)-triene-3,16,17-triol, (16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.



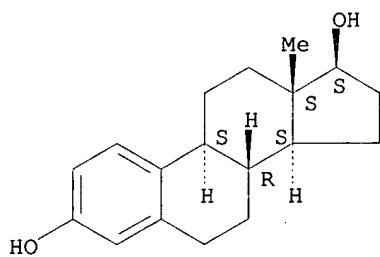
RN 50-27-1 HCAPLUS
 CN Estra-1,3,5(10)-triene-3,16,17-triol, (16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



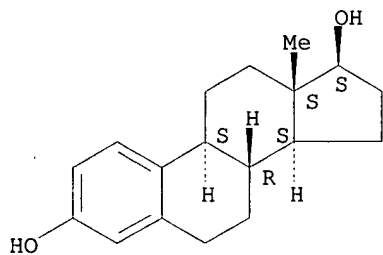
RN 50-28-2 HCAPLUS
 CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



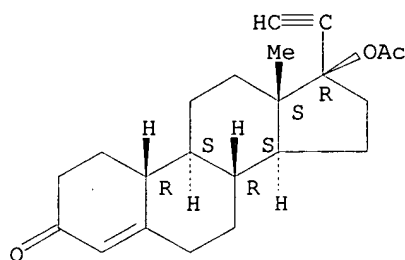
RN 50-28-2 HCAPLUS
 CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



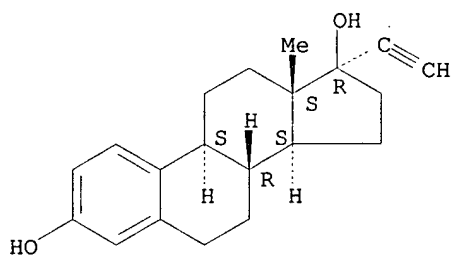
RN 51-98-9 HCAPLUS
CN 19-Norpregn-4-en-20-yn-3-one, 17-(acetyloxy)-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



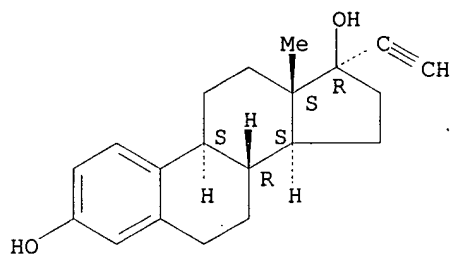
RN 57-63-6 HCAPLUS
CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



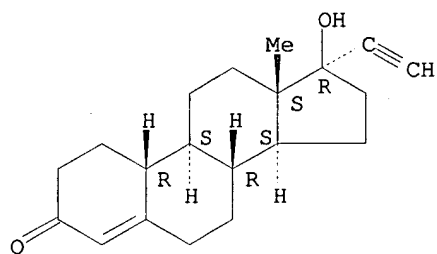
RN 57-63-6 HCAPLUS
CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



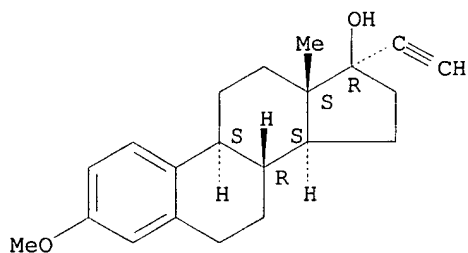
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CN 19-Norpregn-4-en-20-yn-3-one, 17-hydroxy-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



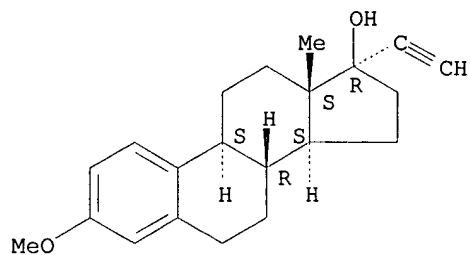
RN 72-33-3 HCAPLUS
CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



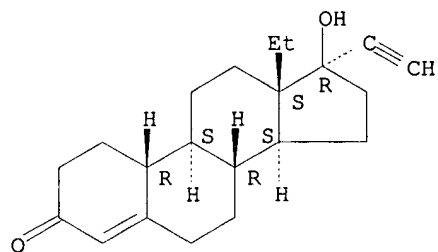
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CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



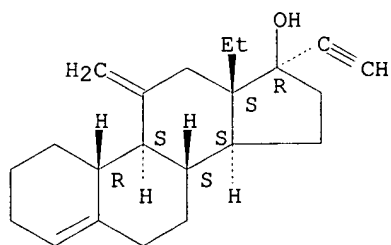
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 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



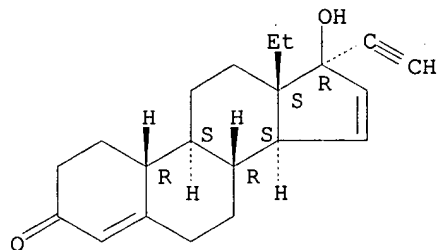
RN 54024-22-5 HCAPLUS
 CN 18,19-Dinorpregn-4-en-20-yn-17-ol, 13-ethyl-11-methylene-, (17.alpha.)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



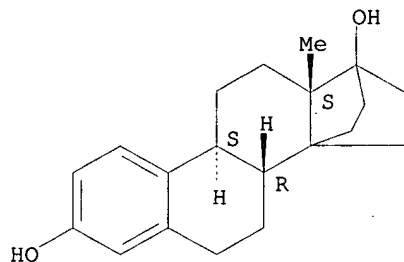
RN 60282-87-3 HCAPLUS
 CN 18,19-Dinorpregna-4,15-dien-20-yn-3-one, 13-ethyl-17-hydroxy-,
 (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



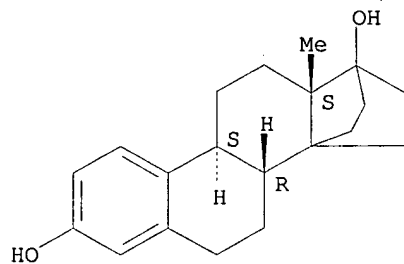
RN 116229-13-1 HCAPLUS
CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,17-diol (9CI) (CA INDEX NAME)

Absolute stereochemistry.



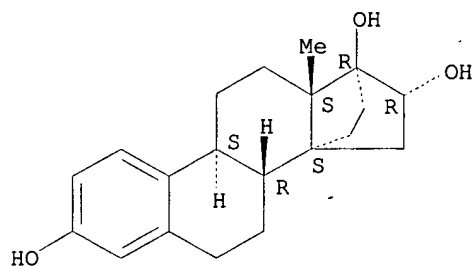
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CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,17-diol (9CI) (CA INDEX NAME)

Absolute stereochemistry.



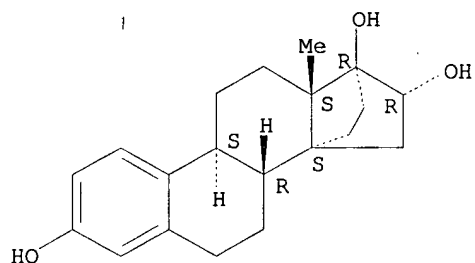
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CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,16,17-triol,
(16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



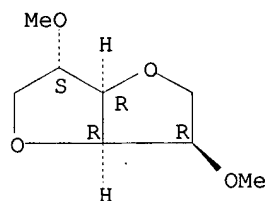
RN 135768-83-1 HCAPLUS
 CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,16,17-triol,
 (16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 5306-85-4, Dimethyl isosorbide
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological
 study); USES (Uses)
 (transdermal therapeutic systems contg. sex steroids)
 RN 5306-85-4 HCAPLUS
 CN D-Glucitol, 1,4:3,6-dianhydro-2,5-di-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d ind 2

L20 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2001 ACS
 IC ICM A61K031-565
 ICS A61K031-57; A61K031-34; A61M037-00; A61L015-44; A61K009-70
 CC 63-6 (Pharmaceuticals)
 ST steroid sex hormone transdermal isosorbide
 IT Neoplasm inhibitors
 (**gestagen**-dependent; transdermal therapeutic systems contg.
 sex steroids)
 IT Ovarian cycle
 (regulation and stabilization; transdermal therapeutic systems contg.
 sex steroids)
 IT Contraceptives
 Osteoporosis
 (transdermal therapeutic systems contg. sex steroids)
 IT **Estrogens**
 Progestogens
 Steroids, biological studies
 RL: BAC (Biological activity or effector, except adverse); DEV (Device
 component use); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (transdermal therapeutic systems contg. sex steroids)
 IT Menopause
 (disorder, transdermal therapeutic systems contg. sex steroids)
 IT **Ovarian cycle**
 (disorder, **premenstrual syndrome**, transdermal
 therapeutic systems contg. sex steroids)
 IT Uterus, disease
 (endometriosis, transdermal therapeutic systems contg. sex steroids)
 IT Pharmaceutical dosage forms
 (transdermal, transdermal therapeutic systems contg. sex steroids)
 IT **50-27-1**, Estriol **50-27-1D**, Estriol, esters
50-28-2, **Estradiol**, biological studies **50-28-2D**
Estradiol, esters **51-98-9**, Norethisterone acetate
57-63-6, 17.alpha.-Ethinylestradiol **57-63-6D**,
 17.alpha.-Ethinylestradiol, esters **68-22-4**, Norethisterone
72-33-3, Mestranol **72-33-3D**, Mestranol, esters
797-63-7, Levonorgestrel **54024-22-5**, Desogestrel
60282-87-3, Gestodene **116229-13-1** **116229-13-1D**
 , esters **135768-83-1** **135768-83-1D**, esters
 RL: BAC (Biological activity or effector, except adverse); DEV (Device
 component use); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (transdermal therapeutic systems contg. sex steroids)
 IT **5306-85-4**, Dimethyl isosorbide
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological
 study); USES (Uses)
 (transdermal therapeutic systems contg. sex steroids)

=> d bib abs hitstr 3

L20 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:253388 HCAPLUS

DN 120:253388

TI Transdermal contraceptive containing 3-ketodesogestrel

IN Lipp, Ralph; Guenther, Clemens; Riedl, Jutta; Taeuber, Ulrich

PA Schering A.-G., Germany

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9404157	A1	19940303	WO 1993-EP2224	19930819
	W: AU, CA, FI, HU, JP, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 4227989	A1	19940609	DE 1992-4227989	19920821
	EP 655916	A1	19950607	EP 1993-919108	19930819
	EP 655916	B1	19980204		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	HU 69406	A2	19950928	HU 1995-510	19930819
	JP 08500584	T2	19960123	JP 1993-505908	19930819
	AT 162945	E	19980215	AT 1993-919108	19930819
	AU 687013	B2	19980219	AU 1993-49504	19930819
	ES 2115071	T3	19980616	ES 1993-919108	19930819
	NO 9500626	A	19950220	NO 1995-626	19950220
	FI 9500774	A	19950220	FI 1995-774	19950220
PRAI	DE 1992-4227989		19920821		
	WO 1993-EP2224		19930819		

AB A transdermal contraceptive adhesive patch has a matrix or reservoir contg. 3-ketodesogestrel, optionally combined with .gtoreq.1 **estrogen**. Such transdermal prepns. are also useful for treatment of endometriosis, **gestagen**-dependent tumors, or premenstrual syndrome when free of **estrogens**, and for treatment of climacteric problems, for prevention of osteoporosis, and for regulation and stabilization of the menstrual cycle when combined with **estrogens**. Thus, 3-ketodesogestrel 0.8 and 1,2-propanediol 8.0 were dissolved in silicone adhesive 50% soln. in ligroin 62.4 g, spread on a polyester film to a d. of 40 g/m², dried, covered with a polyester liner, and cut into 10-cm² patches.

IT 54048-10-1, 3-Ketodesogestrel

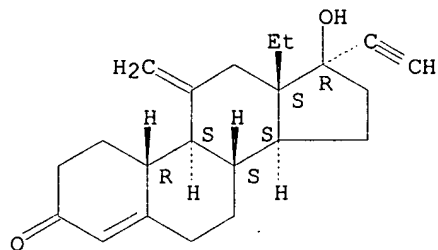
RL: BIOL (Biological study)

(transdermal contraceptives contg.)

RN 54048-10-1 HCAPLUS

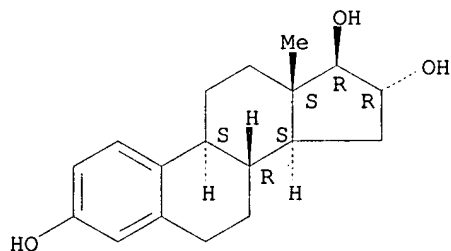
CN 18,19-Dinorpregn-4-en-20-yn-3-one, 13-ethyl-17-hydroxy-11-methylene-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



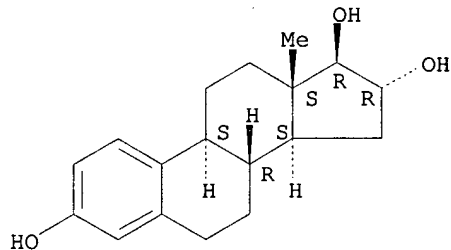
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 50-28-2, Estradiol, biological studies 50-28-2D
 , Estradiol, esters 57-63-6, 17.alpha.-
 Ethynylestradiol 57-63-6D, 17.alpha.-Ethynylestradiol, esters
 72-33-3, Mestranol 72-33-3D, Mestranol, esters
 116229-13-1 116229-13-1D, esters 135768-89-7
 135768-89-7D, esters
 RL: BIOL (Biological study)
 (transdermal contraceptives contg. ketodesogestrel and)
 RN 50-27-1 HCAPLUS
 CN Estra-1,3,5(10)-triene-3,16,17-triol, (16.alpha.,17.beta.)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



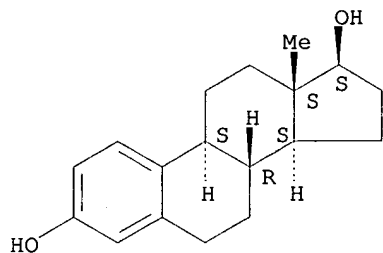
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 INDEX NAME)

Absolute stereochemistry.



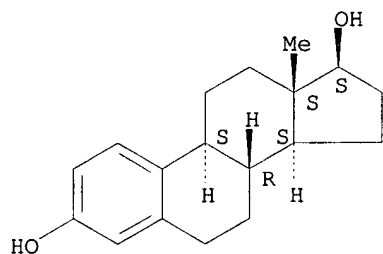
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 CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



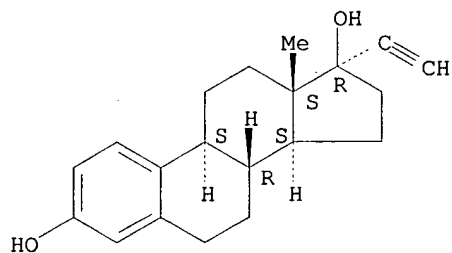
RN 50-28-2 HCAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



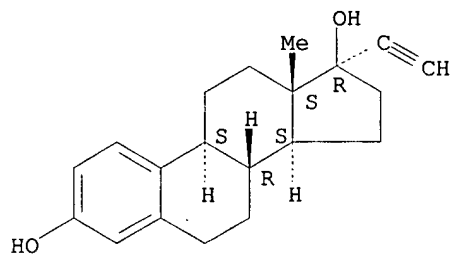
RN 57-63-6 HCAPLUS
CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



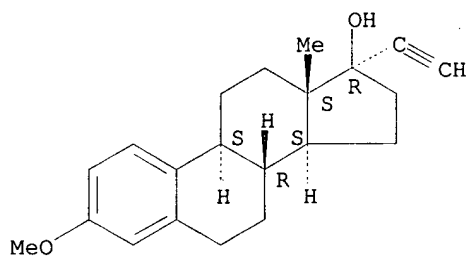
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CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



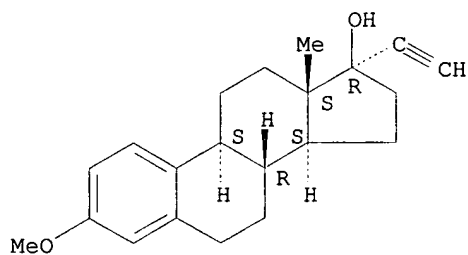
RN 72-33-3 HCAPLUS
 CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



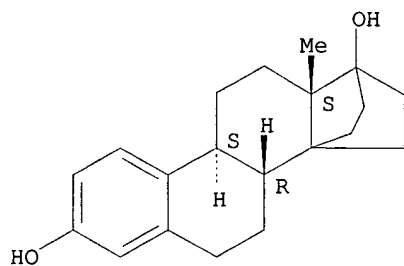
RN 72-33-3 HCAPLUS
 CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 116229-13-1 HCAPLUS
 CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,17-diol (9CI) (CA INDEX NAME)

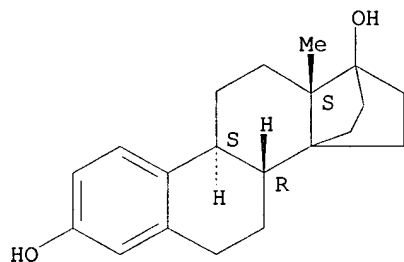
Absolute stereochemistry.



RN 116229-13-1 HCAPLUS

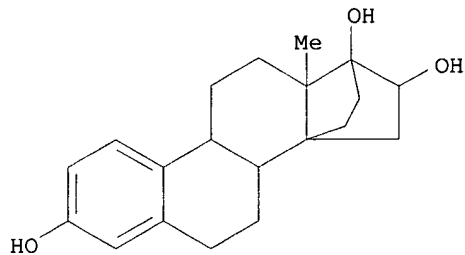
CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,17-diol (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135768-89-7 HCAPLUS

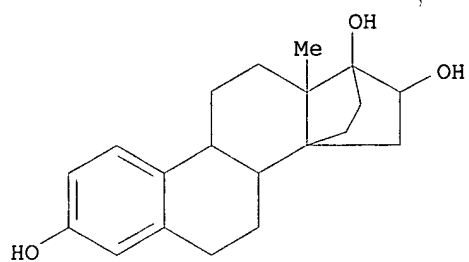
CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,16,17-triol,
(16.beta.,17.alpha.)- (9CI) (CA INDEX NAME)



RN 135768-89-7 HCAPLUS

CN 14,21-Cyclo-19-norpregna-1,3,5(10)-triene-3,16,17-triol,
(16.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

QAZI 09/619,493



=> d ind 3

L20 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2001 ACS
 IC ICM A61K031-565
 ICS A61K009-70
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 2
 ST transdermal contraceptive ketodesogestrel **estrogen**
 IT Neoplasm inhibitors
 (gestagen-dependent, transdermal ketodesogestrel prepn.)
 IT Osteoporosis
 (prevention of, with transdermal prepn. contg. **estrogen** and
 ketodesogestrel)
 IT Ovarian cycle
 (regulation of, with transdermal prepn. contg. **estrogen** and
 ketodesogestrel)
 IT **Estrogens**
 RL: BIOL (Biological study)
 (transdermal contraceptives contg. ketodesogestrel and)
 IT Contraceptives
 (transdermal, ketodesogestrel in)
 IT Menopause
 (treatment of symptoms of, with transdermal prepn. contg.
estrogen and ketodesogestrel)
 IT **Ovarian cycle**
 (disorder, **premenstrual syndrome**, treatment of,
 with transdermal ketodesogestrel prepn.)
 IT Uterus, disease
 (endometriosis, treatment of, with transdermal ketodesogestrel prepn.)
 IT Pharmaceutical dosage forms
 (transdermal, contraceptive, ketodesogestrel in)
 IT **54048-10-1, 3-Ketodesogestrel**
 RL: BIOL (Biological study)
 (transdermal contraceptives contg.)
 IT **50-27-1, Estriol 50-27-1D, Estriol, esters**
50-28-2, Estradiol, biological studies 50-28-2D
, Estradiol, esters 57-63-6, 17.alpha.-
Ethynylestradiol 57-63-6D, 17.alpha.-Ethynylestradiol, esters
72-33-3, Mestranol 72-33-3D, Mestranol, esters
116229-13-1 116229-13-1D, esters 135768-89-7
135768-89-7D, esters
 RL: BIOL (Biological study)
 (transdermal contraceptives contg. ketodesogestrel and)

=> d bib abs hitstr 4

L20 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2001 ACS

AN 1990:618253 HCAPLUS

DN 113:218253

TI Preparation for transdermal application containing gestodene

IN Guenther, Clemens; Taeuber, Ulrich; Schmidt-Gollwitzer, Karin; Riedl, Jutta; Tack, Johannes Wilhelm

PA Schering A.-G., Fed. Rep. Ger.

SO PCT Int. Appl., 22 pp.

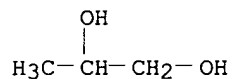
CODEN: PIXXD2

DT Patent

LA German

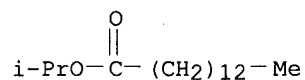
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9004397	A1	19900503	WO 1989-EP1200	19891011
	W: BG, DK, FI, HU, JP, NO, RO, SU				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	DE 3836862	A1	19900503	DE 1988-3836862	19881027
	DE 3910578	A1	19901004	DE 1989-3910578	19890329
	EP 394429	A1	19901031	EP 1989-912449	19891011
	EP 394429	B1	19960110		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 03502700	T2	19910620	JP 1989-511553	19891011
	CA 2001618	AA	19900427	CA 1989-2001618	19891026
	PL 162400	B1	19931130	PL 1989-282033	19891026
	PL 162410	B1	19931130	PL 1989-287526	19891026
	CZ 277870	B6	19930317	CZ 1989-6089	19891027
	SK 278438	B6	19970507	SK 1989-6089	19891027
	DK 9001385	A	19900606	DK 1990-1385	19900606
	NO 9002840	A	19900626	NO 1990-2840	19900626
	NO 180567	B	19970203		
	NO 180567	C	19970514		
	RU 2044541	C1	19950927	RU 1990-4830921	19900626
	NO 9501592	A	19900626	NO 1995-1592	19950426
PRAI	DE 1988-3836862	A	19881027		
	DE 1989-3910578	A	19890329		
	WO 1989-EP1200	W	19891011		
	NO 1990-2840	A	19900626		
OS	MARPAT 113:218253				
AB	Transdermal formulations comprise gestodene, optional estrogen (s), and penetration enhancers, such as 1,2-propanediol or a fatty acid ester. The formulations are layered on a impermeable protective cover, as usual, or sandwiched between a permeable and impermeable layer. The gestodene formulations are used for the treatment of gestagen -dependent tumor, endometriosis and premenstrual syndrome. Formulations contg. gestodene and estrogen are used for the prevention of osteoporosis and cycle regulation. Gestodene (0.8 g) and 1,2-propanediol (8 g) were added to 62.4 g 50% soln. of silicone adhesive in gasoline. The mixt. was laminated between a polyester foil and a fluorinated polymer-coated polyester liner. The in-vitro release of gestodene into water was 0.4 .mu.g/cm2/h.				
IT	57-55-6, 1,2-Propanediol, biological studies 110-27-0, Isopropyl myristate RL: BIOL (Biological study) (penetration enhancer, for transdermal gestodene formulations)				
RN	57-55-6 HCAPLUS				
CN	1,2-Propanediol (8CI, 9CI) (CA INDEX NAME)				



RN 110-27-0 HCAPLUS

CN Tetradecanoic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)

IT 50-27-1, Estriol 50-28-2, Estradiol,
biological studies 57-63-6

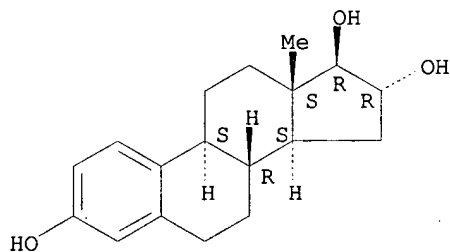
RL: BIOL (Biological study)

(transdermal formulation contg. gestodene and)

RN 50-27-1 HCAPLUS

CN Estra-1,3,5(10)-triene-3,16,17-triol, (16.alpha.,17.beta.)- (9CI) (CA
INDEX NAME)

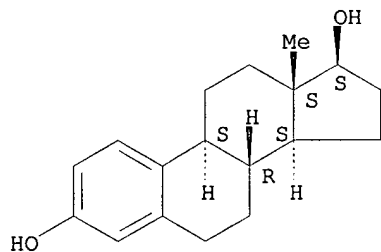
Absolute stereochemistry.



RN 50-28-2 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

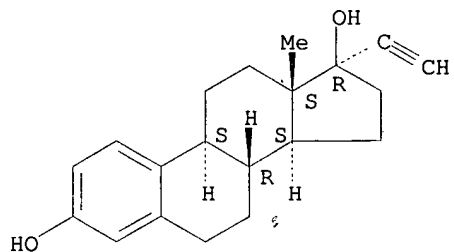
Absolute stereochemistry.



RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



IT **60282-87-3**, Gestodene

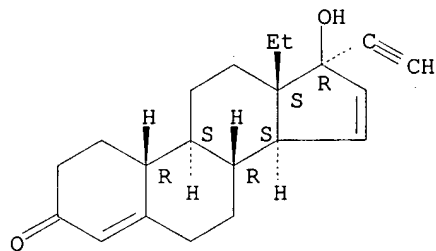
RL: PROC (Process)

(transdermal formulation of)

RN 60282-87-3 HCAPLUS

CN 18,19-Dinorpregna-4,15-dien-20-yn-3-one, 13-ethyl-17-hydroxy-,
(17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS

AN 1998:430231 HCAPLUS

DN 129:77031

TI Therapeutic **gestagens** for premenstrual dysphoric disorderIN **Nashed, Norman**

PA Schering A.-G., Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19654609	A1	19980625	DE 1996-19654609	19961220
	WO 9827929	A2	19980702	WO 1997-DE3032	19971222
	WO 9827929	A3	19981105		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

	AU 9859810	A1	19980717	AU 1998-59810	19971222
PRAI	DE 1996-19654609		19961220		
	WO 1997-DE3032		19971222		

AB **Gestagens** such as drospirenone, cyproterone acetate, and dienogest (optionally in combination with natural or synthetic **estrogens** such as estradiol or ethynylestradiol) are useful in prepn. of medications for treatment of premenstrual dysphoric disorder, possibly owing to their antiandrogenic action. Thus, women with premenstrual dysphoric disorder, treated daily with 3 mg drospirenone and 30 .mu.g ethynylestradiol orally on days 1-21 of the menstrual cycle for 4-6 cycles, showed a lessening of symptoms related to mood, appetite, sleep, etc.

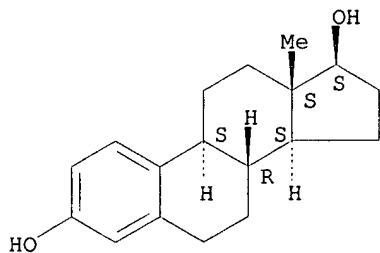
IT 50-28-2, Estradiol, biological studies 50-28-2D, Estradiol, esters 57-63-6, Ethynylestradiol 427-51-0, Cyproterone acetate 979-32-8, Estradiol valerate 65928-58-7, Dienogest 67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (therapeutic **gestagens** for premenstrual dysphoric disorder)

RN 50-28-2 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

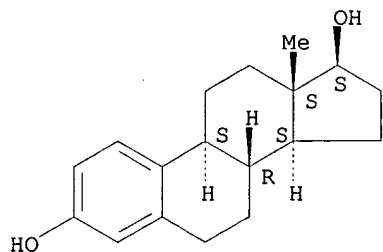


QAZI 09/619,493

RN 50-28-2 HCAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)

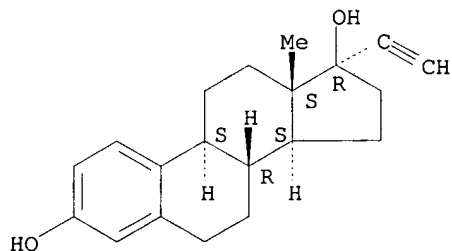
Absolute stereochemistry.



RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

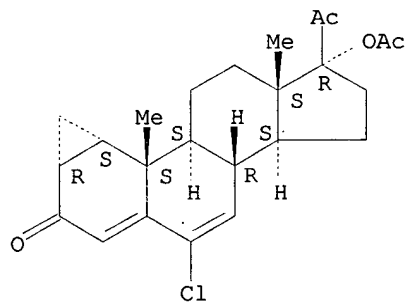
Absolute stereochemistry.



RN 427-51-0 HCAPLUS

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione, 17-(acetyloxy)-6-chloro-1,2-dihydro-, (1.beta.,2.beta.)- (9CI) (CA INDEX NAME)

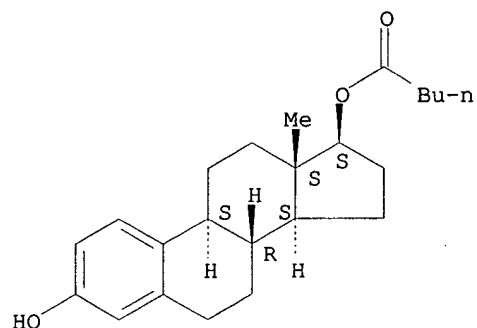
Absolute stereochemistry.



RN 979-32-8 HCAPLUS

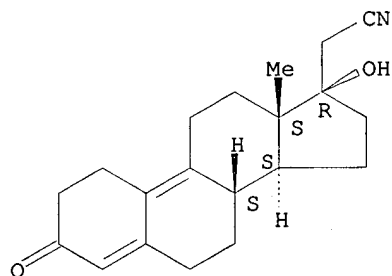
CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



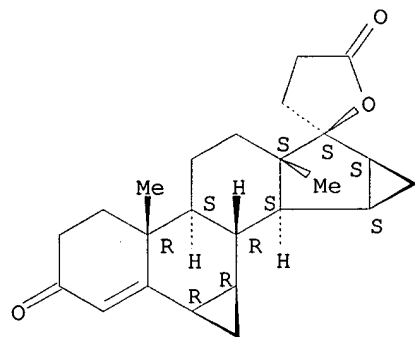
RN 65928-58-7 HCAPLUS
 CN 19-Norpregna-4,9-diene-21-nitrile, 17-hydroxy-3-oxo-, (17.alpha.)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 67392-87-4 HCAPLUS
 CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2' (5'H)-
 furan]-3,5' (2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
 hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d ind

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS
 IC ICM A61K031-57
 ICS A61K031-565
 CC 2-4 (Mammalian Hormones)
 ST premenstrual dysphoria treatment **gestagen**
 IT Premenstrual syndrome
 (therapeutic **gestagens** for premenstrual dysphoric disorder)
 IT **Estrogens**
 Progestins
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (therapeutic **gestagens** for premenstrual dysphoric disorder)
 IT **50-28-2**, Estradiol, biological studies **50-28-2D**,
 Estradiol, esters **57-63-6**, Ethynylestradiol **427-51-0**,
 Cyproterone acetate **979-32-8**, Estradiol valerate
 65928-58-7, Dienogest **67392-87-4**, Drospirenone
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (therapeutic **gestagens** for premenstrual dysphoric disorder)

=> d 17 1

17-ANSWER-1 OF 6-REGISTRY *COPYRIGHT 2001 ACS

RN 67392-87-4 REGISTRY

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[alphenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[alphenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, [6R-(6.alpha.,7.alpha.,8.beta.,9.alpha.,10.beta.,13.beta.,14.alpha.,15.alpha.,16.alpha.,17.beta.)]-

OTHER NAMES:

CN 1,2-Dihydrospirorenone

CN 3-Oxo-6.beta.,7.beta.:15.beta.,16.beta.-dimethylene-17.alpha.-pregn-4-en-21,17-carbolactone

CN Dihydrospirorenone

CN Drospirenone

CN ZK 30595

FS STEREOSEARCH

MF C24 H30 O3

CI COM

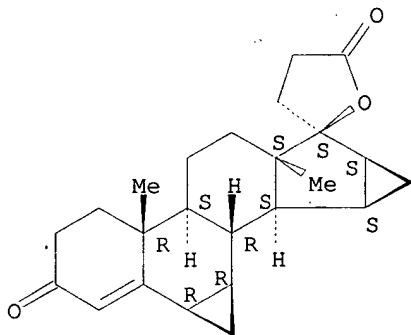
LC STN Files: ADISINSIGHT, ADISNEWS, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, DDFU, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, PHAR, PROMT, RTECS*, SYNTHLINE, TOXLINE, TOXLIT, USAN, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



71 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

71 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 17 2

L7 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2001 ACS

RN 65928-58-7 REGISTRY

CN 19-Norpregna-4,9-diene-21-nitrile, 17-hydroxy-3-oxo-, (17.alpha.)- (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN ~~Dienogest~~

CN Dienogestril

CN STS 557

FS STEREOSEARCH

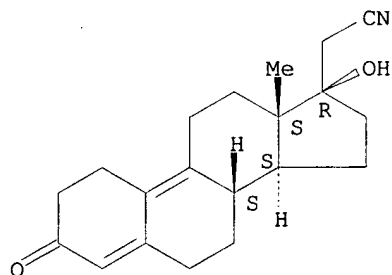
MF C20 H25 N O2

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, DDFU, DRUGPAT, DRUGU,
 DRUGUPDATES, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, PHAR, PROMT,
 RTECS*, SYNTHLINE, TOXLINE, TOXLIT, USAN, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: WHO

Absolute stereochemistry.



175 REFERENCES IN FILE CA (1967 TO DATE)

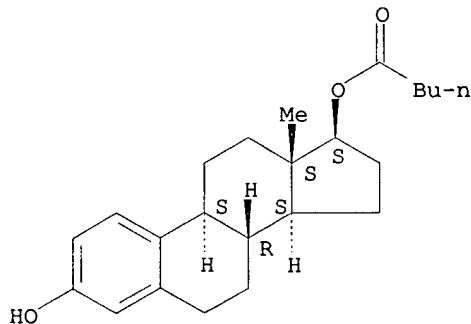
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

176 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 17 3

L7 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2001 ACS
 RN 979-32-8 REGISTRY
 CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Estradiol valerate (6CI)
 CN Estradiol, 17-valerate (7CI, 8CI)
 OTHER NAMES:
 CN 3-Hydroxy-17.beta.-valeroyloxyestra-1,3,5(10)-triene
 CN Atladiol
 CN Deladiol
 CN Delahormone unimatic
 CN Delestrogen
 CN Delestrogen 4x
 CN Dura-Estradiol
 CN Estra-1,3,5(10)-triene-3,17.beta.-diol 17-valerate
 CN Estradiol 17.beta.-valerate
 CN Estradiol valerianate
 CN Estraval
 CN Femogex
 CN Neofollin
 CN Nuvelle
 CN Oestradiol valerinate
 CN Pelanin Depot
 CN Pharlon
 CN Primogyn-Depot
 CN Progynon-Depot
 CN Progynova
 FS STEREOSEARCH
 DR 907-12-0, 69557-95-5
 MF C23 H32 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHARMASEARCH, PROMT, RTECS*, TOXLINE, TOXLIT, ULIDAT, USAN, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



684 REFERENCES IN FILE CA (1967 TO DATE)

QAZI 09/619,493

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
686 REFERENCES IN FILE CAPLUS (1967 TO DATE)
39 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 17 4

L7 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2001 ACS

RN 427-51-0 REGISTRY

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione, 17-(acetyloxy)-6-chloro-1,2-dihydro-, (1.beta.,2.beta.)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione, 6-chloro-1.beta.,2.beta.-dihydro-17-hydroxy-, acetate (8CI)

CN Cyclopropa[1,2]cyclopenta[a]phenanthrene, 3'H-cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione deriv.

CN Pregna-4,6-diene-3,20-dione, 6-chloro-17-hydroxy-1.alpha.,2.alpha.-methylene-, acetate (7CI)

OTHER NAMES:

CN 1,2.alpha.-Methylene-6-chloro-.DELTA.4,6-pregnadien-17.alpha.-ol-3,20-dione acetate

CN 1,2.alpha.-Methylene-6-chloro-17.alpha.-acetoxy-4,6-pregnadiene-3,20-dione

CN 1,2.alpha.-Methylene-6-chloro-pregna-4,6-diene-3,20-dione 17.alpha.-acetate

CN 17.alpha.-Acetoxy-6-chloro-1.alpha.,2.alpha.-methylenepregna-4,6-diene-3,20-dione

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione

CN 6-Chloro-1,2.alpha.-methylene-17.alpha.-hydroxy-.DELTA.6-progesterone acetate

CN 6-Chloro-1,2.alpha.-methylene-6-dehydro-17.alpha.-hydroxyprogesterone acetate

CN 6-Chloro-17-hydroxy-1.alpha.,2.alpha.-methylenepregna-4,6-diene-3,20-dione acetate

CN Androcur

CN Cyproterone 17-O-acetate

CN Cyproterone 17.alpha.-acetate

CN ~~Cyproterone~~ acetate

CN Cyroviron

CN SH 714

FS STEREOSEARCH

MF C24 H29 Cl O4

CI COM

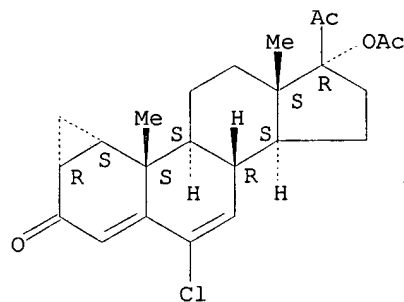
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
 CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB,
 IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHARMASEARCH, PROMT,
 RTECS*, TOXLINE, TOXLIT, USAN, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



QAZI 09/619,493

1330 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1331 REFERENCES IN FILE CAPLUS (1967 TO DATE)
21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 17 5

L7 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2001 ACS

RN 57-63-6 REGISTRY

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 19-Nor-17.alpha.-pregna-1,3,5(10)-trien-20-yne-3,17-diol (6CI, 7CI, 8CI)

OTHER NAMES:

CN 17-Ethinyl-3,17-estradiol

CN 17-Ethinylestradiol

CN 17-Ethinyl-3,17-dihydroxy-1,3,5-oestratriene

CN 17-Ethinylestra-1,3,5(10)-triene-3,17.beta.-diol

CN 17-Ethinylestradiol

CN 17-Nor-17.alpha.-pregna-1,3,5-(10)-trien-20-yne-3,17-diol

CN 17.alpha.-Ethinyl-1,3,5(10)-estratriene-3,17-diol

CN 17.alpha.-Ethinyl-17.beta.-estradiol

CN 17.alpha.-Ethinyl-3,17-dihydroxy-.DELTA.1,3,5-estratriene

CN 17.alpha.-Ethinylestra-1,3,5(10)-triene-3,17.beta.-diol

CN 17.alpha.-Ethinylestradiol

CN 17.alpha.-Ethinylestra-1,3,5(10)-triene-3,17.beta.-diol

CN 17.alpha.-Ethinylestradiol

CN 19-Nor-17.alpha.-pregna-1,3,5(10)-trien-20-yne-3,17.beta.-diol

CN Amenoron

CN Chee-O-Gen

CN Chee-O-Genf

CN Diogyn E

CN Dyloform

CN Esteed

CN Estigyn

CN Estinyl

CN Eston-E

CN Estoral

CN Estorals

CN Estradiol, 17-ethynyl-

CN Ethidol

CN Ethinoral

CN Ethinylestradiol

CN Ethinyloestradiol

CN Ethynylestradiol

CN Ethinyloestradiol

CN Eticyclin

CN Eticyclol

CN Etinestrol

CN Etinestryl

CN Etinoestryl

CN Etistradiol

CN Follicoral

CN Ginestrene

CN Inestra

CN Linoral

CN Lynoral

CN Menolyn

CN Microfollin

CN neo-Estrone

CN Novestrol

CN Oradiol

CN Orestralyn

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

FS STEREOSEARCH

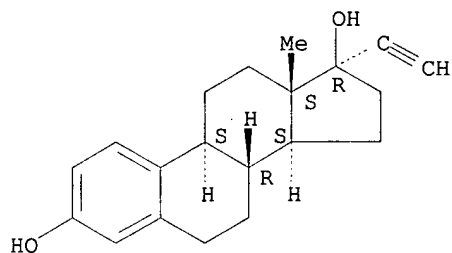
DR 77538-56-8

MF C20 H24 O2

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB,
 DDFU, DIOGENES, DRUGNL, DRUGU, DRUGUPDATES, EMBASE, GMELIN*, HODOC*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR,
 PROMT, RTECS*, SPECINFO, TOXLINE, TOXLIT, ULIDAT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



3386 REFERENCES IN FILE CA (1967 TO DATE)

66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3389 REFERENCES IN FILE CAPLUS (1967 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

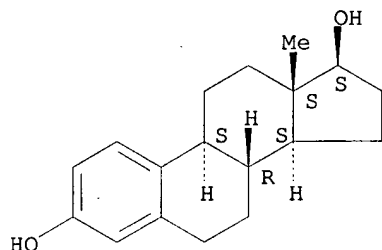
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L7 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2001 ACS
 RN 50-28-2 REGISTRY
 CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Estradiol (8CI)
 OTHER NAMES:
 CN (+)-3,17.beta.-Estradiol
 CN .beta.-Estradiol
 CN 13.beta.-Methyl-1,3,5(10)-gonatriene-3,17.beta.-ol
 CN 17.beta.-Estradiol
 CN 17.beta.-Oestradiol
 CN 3,17-Epidihydroxyestratriene
 CN 3,17.beta.-Dihydroxyestra-1,3,5(10)-triene
 CN 3,17.beta.-Estradiol
 CN Aerodiol
 CN Altrad
 CN Aquadiol
 CN Bardiol
 CN Beta-estradiol
 CN Climaderm
 CN Climara
 CN Compudose
 CN Compudose 200
 CN Compudose 365
 CN Corpagen
 CN Dermestril
 CN Dihydrofollicular hormone
 CN Dihydrofolliculin
 CN Dihydromenformon
 CN Dihydrotheelin
 CN Dihydroxyestrin
 CN Dimenformon
 CN Diogyn
 CN Diogynets
 CN Divigel
 CN E 2
 CN Encore
 CN Epiestriol 50
 CN Estra-1,3,5(10)-triene-3,17-diol, (17.beta.)-
 CN Estra-1,3,5(10)-triene-3,17.beta.-diol
 CN Estrace
 CN Estraderm
 CN Estraderm TTS
 CN Estraderm TTS 50
 CN Estraldine
 CN Estroclim 50
 CN Estrogel
 CN Estrovite
 CN Evorel
 CN Femestral
 CN Femogen
 CN Follicyclin
 CN Ginosedol
 CN Gynergon
 CN Gynoestryl
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 FS STEREOSEARCH
 MF C18 H24 O2

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
 CSNB, DDFU, DETHERM*, DIOGENES, DRUGNL, DRUGU, DRUGUPDATES, EMBASE,
 GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NAPRALERT, NIOSHTIC, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO,
 SYNTHLINE, TOXLINE, TOXLIT, ULIDAT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



42161 REFERENCES IN FILE CA (1967 TO DATE)
 764 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 42200 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 117

L17 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 164017-31-6 REGISTRY

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)-, mixt. with

[6R-(6.alpha.,7.alpha.,8.beta.,9.alpha.,10.beta.,13.beta.,14.alpha.,15.alpha.,16.alpha.,17.beta.)]-1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-

hexadecahydro-10,13-dimethylspiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-,

[6R-(6.alpha.,7.alpha.,8.beta.,9.alpha.,10.beta.,13.beta.,14.alpha.,15.alpha.,16.alpha.,17.beta.)]-, mixt. contg. (9CI)

OTHER NAMES:

CN **Drospirenone-ethinylestradiol mixt.**CN **Ethinylestradiol-drospirenone mixt.**

FS STEREOSEARCH

MF C24 H30 O3 . C20 H24 O2

CI MXS

SR CA

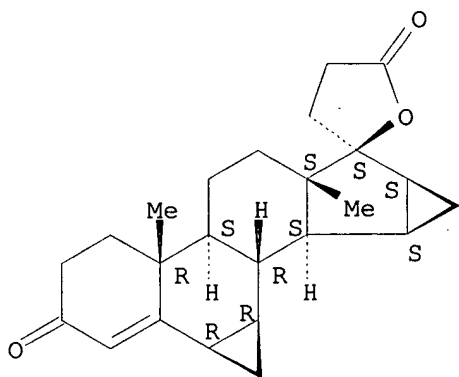
LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 67392-87-4

CMF C24 H30 O3

Absolute stereochemistry.



CM 2

CRN 57-63-6

CMF C20 H24 O2

Searched by John Dantzman

308-4488

=> d 117 2

L17 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS

RN 60528-19-0 REGISTRY

CN 3'H-Cyclopropa[1,2]pregna-1,4,6-triene-3,20-dione,

17-(acetyloxy)-6-chloro-

1,2-dihydro-, (1.beta.,2.beta.)-, mixt. with (17.alpha.)-19-norpregna-
1,3,5(10)-trien-20-yne-3,17-diol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)-, mixt. contg.
(9CI)

CN Cyclopropa[1,2]cyclopenta[a]phenanthrene,
3'H-cyclopropa[1,2]pregna-1,4,6-
triene-3,20-dione deriv.

OTHER NAMES:

CN **Cyproterone acetate-ethinylestradiol mixt.**

CN Diane

CN Diane 35

CN Dianette

CN **Ethinylestradiol-cyproterone acetate mixt.**

CN SH 8.1041

CN SHB 209AB

FS STEREOSEARCH

MF C24 H29 Cl O4 . C20 H24 O2

CI MXS

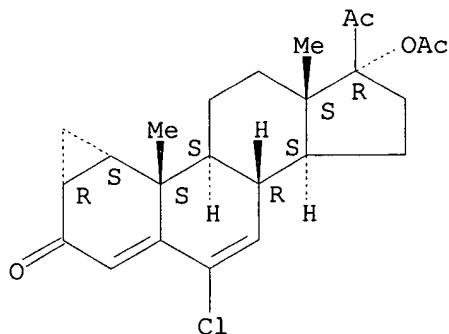
LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CIN, EMBASE,
MEDLINE, PROMT, TOXLINE, TOXLIT

CM 1

CRN 427-51-0

CMF C24 H29 Cl O4

Absolute stereochemistry.



CM 2

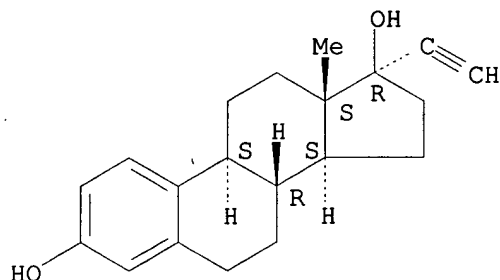
CRN 57-63-6

CMF C20 H24 O2

Searched by John Dantzman

308-4488

Absolute stereochemistry.



42 REFERENCES IN FILE CA (1967 TO DATE)

42 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d all

L33 ANSWER 1 OF 2 MEDLINE
 AN 96311250 MEDLINE
 DN 96311250
 TI Effects of estrogens and progestogens on the renin-aldosterone system and blood pressure.
 AU Oelkers W K
 CS Department of Medicine, Klinikum Benjamin Franklin (Steglitz), Freie Universitat Berlin, Germany.
 SO STEROIDS, (1996 Apr) 61 (4) 166-71. Ref: 50
 Journal code: V10. ISSN: 0039-128X.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 LA English
 FS Priority Journals
 EM 199701
 EW 19970104
 AB Endogenous 17 beta-estradiol (E2) and low parenteral doses of exogenous E2

are vasodilators. High dose estrogens, especially **ethinylestradiol** (EE) and **mestranol**, stimulate the synthesis of hepatic proteins including coagulation factors, sex hormone binding globulin, and angiotensinogen (Aogen). In the steady state, high plasma levels of Aogen produce only a very small increase of angiotensin II (AII) and plasma renin activity, because AII inhibits the secretion of renin and lowers plasma renin concentration. However, the increase in AII is sufficient for

a slight reduction in renal blood flow and a slight increase in exchangeable sodium and blood pressure; in susceptible women, blood pressure may rise considerably. Effects of estrogens on the brain may also

be involved in blood pressure changes. Endogenous progesterone is a mineralocorticoid receptor antagonist. Endogenous or exogenous progesterone leads to sodium loss and a compensatory increase in renin secretion, plasma renin activity, AII, and plasma aldosterone, e.g. in the

Searched by John Dantzman 308-4488

second half of the **menstrual** cycle. Synthetic progestogens are commonly devoid of the mineralocorticoid receptor antagonistic effect of progesterone, and some are weak estrogen receptor agonists. Combined use of EE and synthetic progestogens may therefore enhance estrogen effects

on

body sodium and blood pressure. A new progestogen (**Drospirenone**) with an antimineralocorticoid effect like that of progesterone is described that slightly lowers body weight and blood pressure in a contraceptive formulation together with EE. An almost ideal oral contraceptive would be progestogen like **Drospirenone** together with a low dose natural estrogen that does not stimulate Aogen synthesis. Since most oral formulations for postmenopausal estrogen replacement also stimulate hepatic protein synthesis (including Aogen) to some extent, the transdermal route of E2 application for contraceptive purposes should

also

be investigated, since it has reduced potential for undesirable side effects.

CT

Check Tags: Animal; Female; Human

*Aldosterone: ME, metabolism

Aldosterone Antagonists: PD, pharmacology

Aldosterone Antagonists: TU, therapeutic use

Androstenes: PD, pharmacology

Androstenes: TU, therapeutic use

Angiotensinogen: ME, metabolism

*Blood Pressure: DE, drug effects

Contraceptives, Oral: TU, therapeutic use

Estrogens: CS, chemical synthesis

Estrogens: PD, pharmacology

*Estrogens: TU, therapeutic use

Postmenopause

Pregnancy

Progestational Hormones: CS, chemical synthesis

Progestational Hormones: PD, pharmacology

*Progestational Hormones: TU, therapeutic use

Progesterone: PD, pharmacology

Rats

*Renin: DE, drug effects

Renin: ME, metabolism

RN

11002-13-4 (Angiotensinogen); 52-39-1 (Aldosterone); 57-83-0

(Progesterone); **67392-87-4 (1,2-dihydrospirorenone)**

CN

EC 3.4.23.15 (Renin); 0 (Aldosterone Antagonists); 0 (Androstenes); 0 (Contraceptives, Oral); 0 (Estrogens); 0 (Progestational Hormones)

=> d all 2

L33 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1991:505466 BIOSIS
DN BA92:128426
TI **DIHYDROSPIRORENONE** A NEW PROGESTOGEN WITH ANTIMINERALOCORTICOID
ACTIVITY EFFECTS ON OVULATION ELECTROLYTE EXCRETION AND THE RENIN
ALDOSTERONE SYSTEM IN NORMAL WOMEN.
AU OELKERS W; BERGER V; BOLIK A; BAEHR V; HAZARD B; BEIER S; ELGER W;
HEITHECKER A
CS DEP. INTERNAL MEDICINE, KLINIKUM STEGLITZ, FREIE UNIVERSITAET BERLIN,
HINDENBURGDAMM 30, D-1000 BERLIN 45, GER.
SO J CLIN ENDOCRINOL METAB, (1991) 73 (4), 837-842.
CODEN: JCEMAZ. ISSN: 0021-972X.
FS BA; OLD
LA English
AB **Dihydrospirorenone** (DHSP; 6.beta.,7.beta.,15.beta.,16.beta.-
dimethylen-3-oxo-17.beta.-pregn-4-en-21,17-carbolacton) is an aldosterone
antagonist 8 times as potent as spironolactone in the rat. It is also a
progestogen that suppresses ovulation in normal women at a daily dosage
of 2 mg. The effects of this dosage on the renin-aldosterone system and
sodium and potassium balances were investigated in two experiments. In
study I, 12 healthy women received a diet with 100 mmol sodium and 60-70
mmol potassium per day from day 3-13 of their normal **menstrual**
cycles. Six women took 2 mg DHSP; 6 others received placebo from days
8-13 of the cycle. Sodium excretion in the DHSP group rose from a mean of 79
to 98.5 +/- 8.3 mmol/day during medication. Placebo had no effect. The
difference between average sodium excretion rates in subjects treated
with DHSP or placebo was close to significance (P = 0.053). Potassium
excretion did not change. Weight loss was slightly greater after DHSP than placebo
treatment. PRA and plasma and urinary aldosterone rose significantly
during DHSP medication. In study II, 12 women on a free diet were studied
during a control and a treatment cycle. From days 5-25 of the second
cycle, they took 2 mg DHSP (n = 6) or 1 mg cyproterone acetate. Both
compounds suppressed ovulation and the rise in progesterone. During cycle
1, sodium excretion, PRA, and aldosterone were higher in the luteal than
in the follicular phase, probably due to an antialdosterone effect of
progesterone. DHSP reversed this pattern of natriuresis by inducing a
significant early natriuresis and a rise in PRA and aldosterone.
Cyproterone acetate only abolished differences in natriuresis between the
follicular and luteal phases and the rise of PRA and plasma aldosterone
in the luteal phase. We conclude that DHSP may be a suitable partner of
ethinyl estradiol as a constituent of an oral contraceptive, since its
progestogenic and antialdosterone profile is similar to that of
progesterone. Other synthetic progestogens are devoid of an
antialdosterone effect. The antialdosterone effect of DHSP may help
prevent sodium retention and a rise in blood pressure in susceptible
women.
CC Circadian Rhythms and Other Periodic Cycles *07200
Searched by John Dantzman 308-4488

Biochemical Studies - Proteins, Peptides and Amino Acids 10064
Biochemical Studies - Sterols and Steroids 10067
Biochemical Studies - Minerals 10069
Enzymes - Physiological Studies *10808
Metabolism - Sterols and Steroids *13008
Metabolism - Minerals *13010
Metabolism - Proteins, Peptides and Amino Acids *13012
Cardiovascular System - Blood Vessel Pathology *14508
Reproductive System - Physiology and Biochemistry *16504
Endocrine System - Adrenals *17004
Endocrine System - Gonads and Placenta *17006
Pharmacology - Clinical Pharmacology *22005
Pharmacology - Endocrine System *22016
Pharmacology - Reproductive System; Implantation Studies *22028
Toxicology - Pharmacological Toxicology *22504
BC Hominidae 86215
IT Miscellaneous Descriptors
CONTRACEPTIVE-DRUG HORMONE-DRUG **ETHYNYLESTRADIOL**
PHARMACODYNAMICS SODIUM RETENTION BLOOD PRESSURE
RN 52-39-1 (ALDOSTERONE)
57-63-6 (ETHYNYLESTRADIOL)
7440-23-5 (SODIUM)
9015-94-5 (RENIN)

=> d bib abs hitstr

L35 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2000 ACS

AN 1995:617505 HCAPLUS

DN 123:25887

TI Effects of a new oral contraceptive containing an antimineralocorticoid progestogen, drospirenone, on the renin-aldosterone system, body weight, blood pressure, glucose tolerance, and lipid metabolism

AU Oelkers, W.; Foidart, J. M.; Dombrovicz, N.; Welter, A.; Heithecker, R.

CS Klinikum Benjamin Franklin, Freie Universitaet, Berlin, 12200, Germany

SO J. Clin. Endocrinol. Metab. (1995), 80(6), 1816021

CODEN: JCEMAZ; ISSN: 0021-972X

DT Journal

LA English

AB Combined hormonal oral contraceptives (OCs) may lead to a mild rise in blood pressure and body wt. In rare instances, large increments in blood pressure are measured. We investigated the effect of a combination of ethinyl estradiol (EE) plus a progestogen with antimineralocorticoid,

i.e. natriuretic, properties [Drospirenone (DRSP)] on body wt., blood pressure, the renin-aldosterone system, atrial natriuretic factor, plasma lipids, and glucose tolerance. It is anticipated that this will lead to the development of an OC that does not raise body wt. or blood pressure.

Four groups of 20 women each received 30 .mu.g EE plus 3 mg DRSP (group A), 20 .mu.g EE plus 3 mg DRSP (group B), 15 .mu.g EE plus 3 mg DRSP (group C), and, as a control OC, 30 .mu.g EE plus 150 .mu.g levonorgestrel (Microgynon; group D) for 6 mo. During the OC-free control cycles before and after treatment and throughout treatment, the target parameters were measured. Between the pretreatment cycle and the sixth treatment cycle, mean body wt. fell by 0.8 to 1.7 kg in groups A, B, and C, whereas it

rose by 0.7 kg in group D. Systolic and diastolic blood pressures fell by 1-4 mm Hg in groups A, B, and C and increased by 1-2 mm Hg in group D. Renin substrate rose equally in all groups, whereas PRA and plasma aldosterone rose significantly only in the DRSP groups, presumably due to sodium

loss. In the DRSP groups, high d. lipoprotein cholesterol rose, in contrast to group D. Low d. lipoprotein cholesterol fell slightly, whereas triglyceride levels showed a stronger increase in the DRSP groups than in group D. All groups attained good cycle control; group A had the best. Side-effects were minimal. To our knowledge, this is the first report on a combined OC that leads to a small decrease in body wt. and blood pressure. It may be esp. beneficial for women susceptible for a gain in wt. and a rise in blood pressure.

IT 164017-31-6

RL: BAC (Biological activity or effector, except adverse); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)

(drospirenone-ethinyloestradiol mixt. effect on renin-aldosterone

system

and body wt. and blood pressure and glucose tolerance and lipid metab. in women)

RN 164017-31-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)-, mixt. with

[6R-(6.alpha.,7.alpha.)-13beta-ethynyl-14.alpha.,15.alpha.]

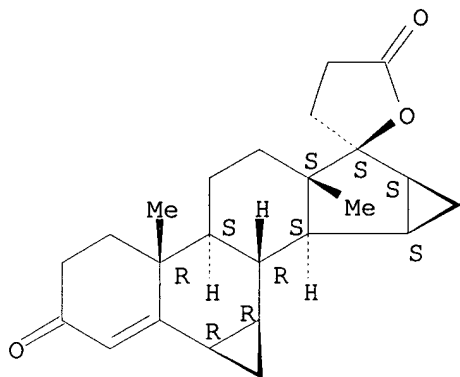
ha.,16.alpha.,17.beta.))]-1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethylspiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 67392-87-4

CMF C24 H30 O3

Absolute stereochemistry.



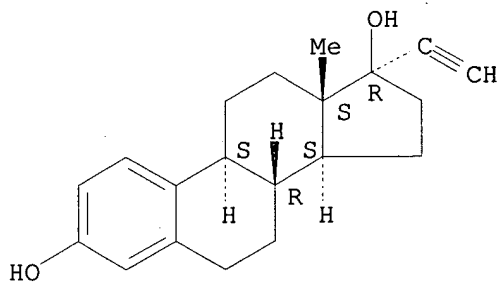
CM 2

CRN 57-63-6

CMF C20 H24 O2

CDES 4:17A.PREGN

Absolute stereochemistry.



=> d bib abs

L41 ANSWER 1 OF 2 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1995-232670 [31] WPIDS
DNC C1995-107423
TI Low dose combined oestrogen-gestagen oral contraception - for female up
to
pre-menopause stage, by planned admin. over **menstrual** cycle.
DC B01
IN DUESTERBERG, B; ELSTEIN, M; FEICHTINGER, W; LUEDICKE, F; SPONA, J;
DUSTERBERG, B; LUDICKE, F
PA (SCHD) SCHERING AG; (DUST-I) DUSTERBERG B; (LUDI-I) LUDICKE F; (SPON-I)
SPONA J
CYC 33
PI DE 4344462 A1 19950629 (199531)* 6p
WO 9517194 A1 19950629 (199531) 9p
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: CA CN CZ HU JP KR LT LV NO NZ PL RU SI SK UA
DE 4344462 C2 19960201 (199609)
NO 9602676 A 19960822 (199644)
EP 735883 A1 19961009 (199645) DE
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
US 5583129 A 19961210 (199704) 4p
CZ 9601861 A3 19961211 (199706)
SK 9600831 A3 19970205 (199715)
JP 09506888 W 19970708 (199737) 15p
HU 74877 T 19970228 (199748)
KR 97700036 A 19970108 (199801)
US 5824667 A 19981020 (199849)
NZ 278058 A 19981223 (199906)
ADT DE 4344462 A1 DE 1993-4344462 19931222; WO 9517194 A1 WO 1994-EP4274
19941222; DE 4344462 C2 DE 1993-4344462 19931222; NO 9602676 A WO
1994-EP4274 19941222, NO 1996-2676 19960624; EP 735883 A1 WO 1994-EP4274
19941222, EP 1995-905574 19941222; US 5583129 A US 1994-268996 19940630;
CZ 9601861 A3 CZ 1996-1861 19941222; SK 9600831 A3 WO 1994-EP4274
19941222, SK 1996-831 19941222; JP 09506888 W WO 1994-EP4274 19941222, JP
1995-517199 19941222; HU 74877 T WO 1994-EP4274 19941222, HU 1996-1750
19941222; KR 97700036 A WO 1994-EP4274 19941222, KR 1996-703408 19960622;
US 5824667 A Cont of US 1994-268996 19940630, US 1996-742147 19961031; NZ
278058 A NZ 1994-278058 19941222, WO 1994-EP4274 19941222
FDT EP 735883 A1 Based on WO 9517194; JP 09506888 W Based on WO 9517194; HU
74877 T Based on WO 9517194; KR 97700036 A Based on WO 9517194; US
5824667
A Cont of US 5583129; NZ 278058 A Based on WO 9517194
PRAI DE 1993-4344462 19931222
AN 1995-232670 [31] WPIDS
AB DE 4344462 A UPAB: 19950810
Conception is prevented in a fertile female who has not reached the
pre-menopause by the admin. over a 28 day cycle of a combination of: (a)
an estrogen content comprising: 2-6 mg 17beta-oestradiol or
0.015-ethynyloestradiol; and (b) a gestagen content comprising:
0.05-0.075
mg gestodene; 0.075-0.125 mg levonorgestrel; 0.06-0.15 mg desogestrel or
3-ketodesogestrel; 0.1-0.3 mg **drospirenone**; 0.1-0.2 mg
cyproterone acetate; 0.2-0.3 mg norgestimate or > 0.35 mg to 0.75 mg
Searched by John Dantzman 308-4488

norethisterone; for 23 or 24 days commencing on day 1 of the menstruation cycle followed by 5 or 4 days without this medication or with a placebo. Also claimed is a contraceptive pack contg. 23 or 24 dosage units contg. the oestrogen and gestagen components and 5 or 4 placebos or other instructions to the effect that 5 or 4 days without medicament or with placebo should follow the admin. of a dosage unit for 23 or 24

consecutive

days; with the estrogen content being: > 2 mg to 6 mg oestradiol or 0.02 mg ethinyloestradiol; and the gestagen content being: above 0.06-0.075 mg gestodene, > 0.1-0.125 mg levonorgestrel, > 0.1-0.15 mg desogestrel or 3-ketodesogestrel, 0.25-0.3 mg **drospirenone**, 0.1-0.2 mg cyproterone acetate, 0.2-0.3 mg norgestimate or 0.5-0.75 mg norethisterone.

USE - The method provides oral contraception by inhibiting ovulation without follicular maturation.

ADVANTAGE - The method uses the lowest possible daily oestrogen dose coupled with a low total hormone intake over the entire cycle, and avoids problems associated with contraception using Mercilon (20 mug ethinyloestradiol and 50 mg desogestrel). In partic., compared with a conventional 21 day hormone contraception regimen, the 23 day regimen reduces the frequency of follicular development, does not result in large follicles or the recruitment of dominant follicles and reduces side effects, e.g. breast enlargement, by suppressing endogenous 17beta-oestrogen levels.

Dwg.0/2

ABEQ US 5583129 A UPAB: 19970122

Inducing contraception in a female of reproductive age who has not yet reached premenopause, comprises admin. of a compsn. comprising an

estrogen

selected from

2.0 to 6.0 mg of 17beta-estradiol and
0.015 to 0.020 mg of **ethinylestradiol**;
and a gestagen selected from
0.05 to 0.075 mg of gestodene,
0.075 to 0.125 mg of levonorgestrel,
0.06 to 0.15 mg of desogestrel,
0.06 to 0.15 mg of 3-ketodesogestrel,
0.1 to 0.3 mg of **drospirenone**,
0.1 to 0.2 mg of cyproterone acetate,
0.2 to 0.3 mg of norgestimate and
>0.35 to 0.75 mg of norethisterone;

23 or 24 days, beginning on day one of the **menstrual** cycle,
followed by 5 or 4 pill-free or sugar pill days, during a total of 28

days

in the administration cycle.

Dwg.0/2

=> d bib abs 2

L41 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2000 ISI (R)
AN 96:367585 SCISEARCH
GA The Genuine Article (R) Number: UJ270
TI EFFECTS OF ESTROGENS AND PROGESTOGENS ON THE RENIN-ALDOSTERONE SYSTEM AND BLOOD-PRESSURE
AU OELKERS W K H (Reprint)
CS FREE UNIV BERLIN, KLINIKUM BENJAMIN FRANKLIN STEGLITZ, DEPT MED, DIV ENDOCRINOL, HINDENBURGDAMM 30, D-12200 BERLIN, GERMANY (Reprint)
CYA GERMANY
SO STEROIDS, (APR 1996) Vol. 61, No. 4, pp. 166-171.
ISSN: 0039-128X.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 50
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
AB Endogenous (17)beta-estradiol (E2) and low parenteral doses of exogenous E2 are vasodilators. High dose estrogens, especially **ethinylestradiol** (EE) and mestranol, stimulate the synthesis of hepatic proteins including coagulation factors, sex hormone binding globulin, and angiotensinogen (Aogen). In the steady state, high plasma levels of Aogen produce only a very small increase of angiotensin II
(AII)
and plasma renin activity, because AII inhibits the secretion of renin
and
lowers plasma renin concentration. However, the increase in AII is sufficient for a slight reduction in renal blood flow and a slight increase in exchangeable sodium and blood pressure; in susceptible women, blood pressure may rise considerably. Effects of estrogens on the brain may also be involved in blood pressure changes. Endogenous progesterone
is
a mineralocorticoid receptor antagonist. Endogenous or exogenous progesterone lends to sodium loss and a compensatory increase in renin secretion, plasma renin activity, AII, and plasma aldosterone, e.g. in
the
second half of the **menstrual** cycle. Synthetic progestogens are commonly devoid of the mineralocorticoid receptor antagonistic effect of progesterone, and some are weak estrogen receptor agonists. Combined use of EE and synthetic progestogens may therefore enhance estrogen effects
on
body sodium and blood pressure. A new progestogen (**Drospirenone**) with an antimineralocorticoid effect like that of progesterone is described that slightly lowers body weight and blood pressure in a contraceptive formulation together with EE. An almost ideal oral contraceptive would be a progestogen like **Drospirenone** together with a low dose natural estrogen that does not stimulate Aogen synthesis. Since most oral formulations for postmenopausal estrogen replacement also stimulate hepatic protein synthesis (including Aogen) to some extent, the transdermal route of E2 application for contraceptive purposes should
also
be investigated, since it has a reduced potential for undesirable side effects.

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09/331397

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Searched by John Dantzman

308-4488

=> d bib abs hitstr

L43 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1999:219991 HCAPLUS

DN 130:242332

TI Oral contraceptive preparation having a first phase comprising progestin/estrogen and a second phase comprising progestin

IN Gast, Michael Jay

PA American Home Products Corporation, USA

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

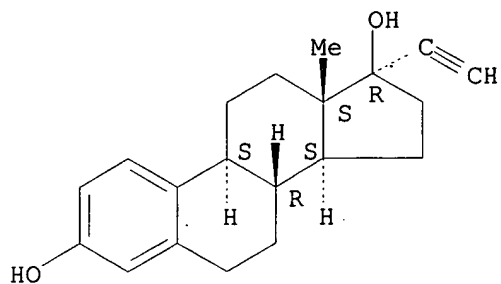
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9913882	A1	19990325	WO 1998-US18850	19980909
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9892286	A1	19990405	AU 1998-92286	19980909
PRAI	US 1997-928530		19970912		
	WO 1998-US18850		19980909		
AB	A method of contraception comprises administering to a female of child-bearing age for 28 days per menstrual cycle a combination of a progestin at a daily dosage equiv. to 30-150 .mu.g levonorgestrel and				
	an estrogen at a daily dosage equiv. to 10-20 .mu.g ethynylestradiol for 23-25 days beginning on day 1 of the menstrual cycle, followed by administering a progestin at a daily dosage equiv. to 10-100 .mu.g levonorgestrel for 3-5 days. This regimen provides effective contraception, good cycle control, and minimal side effects while greatly reducing the total contraceptive steroid administered per 28-day cycle.				
A	suitable regimen comprised administration of levonorgestrel 75 and ethynylestradiol 15 .mu.g/day for the first 24 cycle days, followed by levonorgestrel 37.5 .mu.g/day for the last 4 days.				
IT	57-63-6, Ethynylestradiol 72-33-3, Mestranol 67392-87-4, Drospirenone				
	RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(oral contraceptive prepn. with first phase comprising progestin/estrogen and second phase comprising progestin)				
RN	57-63-6 HCAPLUS				
CN	19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)				

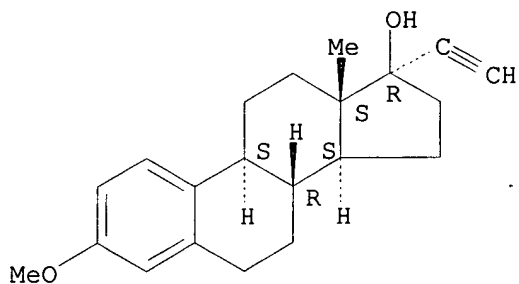
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
(CA INDEX NAME)

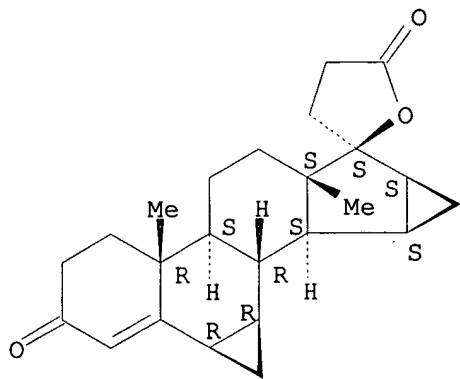
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-
furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



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09/331397

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Searched by John Dantzman

308-4488

=> d bib abs hitstr 2

L43 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:430231 HCAPLUS

DN 129:77031

TI Therapeutic gestagens for **premenstrual** dysphoric disorder

IN Nashed, Norman

PA Schering A.-G., Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19654609	A1	19980625	DE 1996-19654609	19961220
	WO 9827929	A2	19980702	WO 1997-DE3032	19971222
	WO 9827929	A3	19981105		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9859810 A1 19980717 AU 1998-59810 19971222

PRAI DE 1996-19654609 19961220

WO 1997-DE3032 19971222

AB Gestagens such as drospirenone, cyproterone acetate, and dienogest (optionally in combination with natural or synthetic estrogens such as estradiol or ethynylestradiol) are useful in prepn. of medications for treatment of **premenstrual** dysphoric disorder, possibly owing to their antiandrogenic action. Thus, women with **premenstrual** dysphoric disorder, treated daily with 3 mg drospirenone and 30 .mu.g ethynylestradiol orally on days 1-21 of the **menstrual** cycle for 4-6 cycles, showed a lessening of symptoms related to mood, appetite, sleep, etc.

IT 57-63-6, Ethynylestradiol 67392-87-4, Drospirenone

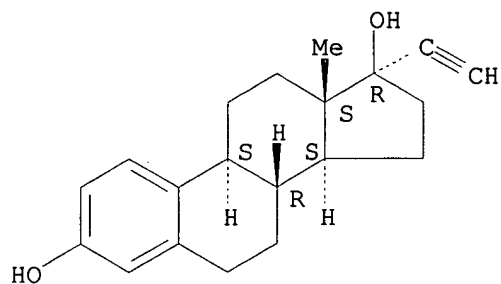
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(therapeutic gestagens for **premenstrual** dysphoric disorder)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

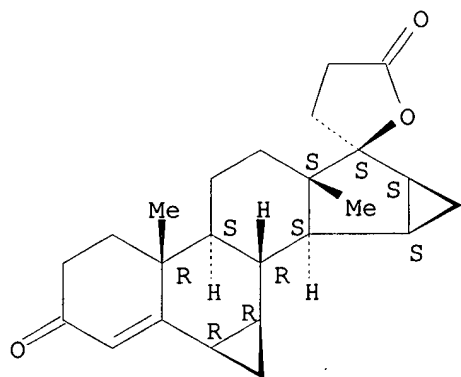
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2' (5'H)-
furan]-3,5' (2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 3

L43 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:98330 HCAPLUS

DN 128:158938

TI Monophasic contraceptive method and kit comprising a combination of a progestin and estrogen

IN Gast, Michael Jay

PA American Home Products Corporation, USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804269	A1	19980205	WO 1997-US12795	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2261689	AA	19980205	CA 1997-2261689	19970723
	AU 9738887	A1	19980220	AU 1997-38887	19970723
	CN 1226168	A	19990818	CN 1997-196763	19970723
	EP 956024	A1	19991117	EP 1997-936149	19970723
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			

PRAI US 1996-686790 19960726

WO 1997-US12795 19970723

AB A method of contraception is provided which comprises administering to a female of child bearing age a combination of a progestin at a daily dosage

of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol for 23-25 days beginning on day 1 of the **menstrual** cycle, and wherein the same dosage of the progestin and estrogen combination is administered in each of the 23-25 days. An oral contraceptive compn. contained trimegestone 125, ethinyl estradiol 15 .mu.g, microcryst. cellulose, lactose, potassium polacrillin, magnesium stearate, Opadry pink, PEG-1500, was E, and water q.s.

IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol

67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU

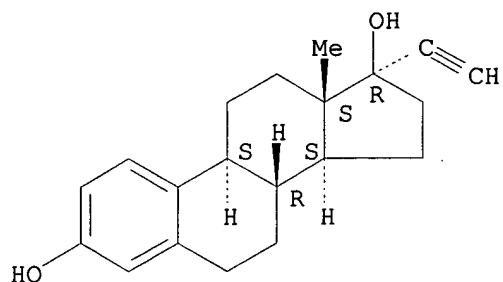
(Therapeutic use); BIOL (Biological study); USES (Uses)

(monophasic contraceptive method and kit comprising combination of progestin and estrogen)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

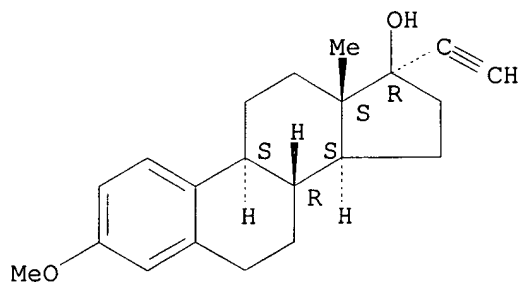
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
(CA INDEX NAME)

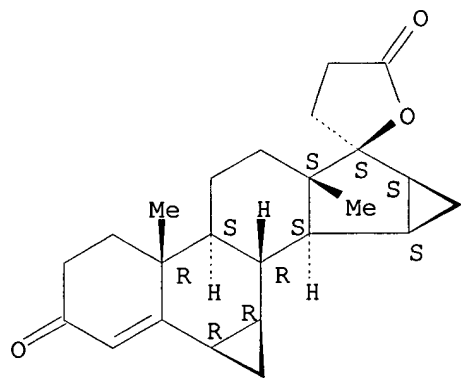
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-
furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



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Searched by John Dantzman

308-4488

=> d bib abs hitstr 4

L43 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2000 ACS
AN 1998:98329 HCAPLUS
DN 128:158937
TI Progestin/estrogen oral contraceptives
IN Gast, Michael Jay
PA American Home Products Corporation, USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804268	A1	19980205	WO 1997-US12786	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2261687	AA	19980205	CA 1997-2261687	19970723
	AU 9738076	A1	19980220	AU 1997-38076	19970723
	EP 917466	A1	19990526	EP 1997-935047	19970723
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			

PRAI US 1996-686786 19960726
WO 1997-US12786 19970723

AB A method of contraception is provided which comprises administering to a female of child bearing age for 23-25 consecutive days, a first phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone,

250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol for 3-8 days beginning on day 1 of the **menstrual** cycle, wherein the same dosage of the progestin and estrogen combination is administered in each of the 3-8 days. A second phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol,

for 4-15 days, beginning on the day immediately following the last day of administration of the first phase combination, wherein the same dosage of the progestin and estrogen combination is administered in each of the

4-15 days, and a third phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol, for 4-15 days beginning on the day immediately following the last day of administration of the second phase combination, wherein the same dosage of the progestin and estrogen combination is administered in each of the 4-15 days provided that the

Searched by John Dantzman 308-4488

daily dosage of the combination administered in the phase is not the same as the daily dosage of the combination administered in the second phase and that the daily dosage of the combination administered in the second phase is not the same as the daily dosage of the combination administered in the third phase. An oral contraceptive compn. contained trimegestone 125, ethinyl estradiol 15 .mu.g, microcryst. cellulose, lactose, polacrillin potassium, magnesium stearate, Opadry pink, polyethylene glycol, and wax.

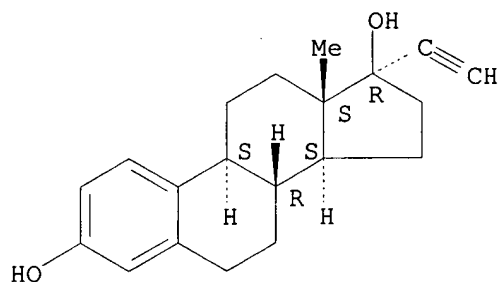
IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol
67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(progestin/estrogen oral contraceptives)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

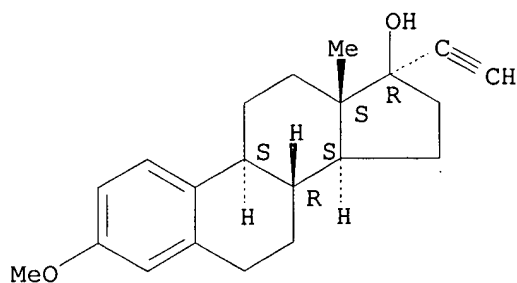
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
(CA INDEX NAME)

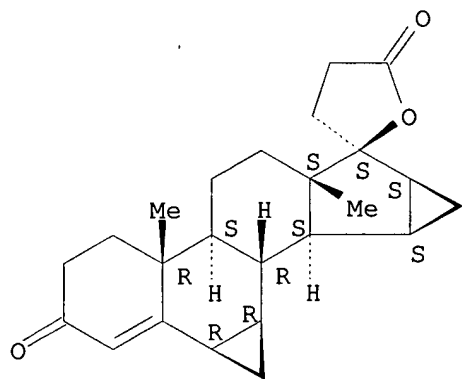
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-
furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 5

L43 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:98328 HCAPLUS

DN 128:158936

TI Progestin/estrogen oral contraceptives

IN Gast, Michael Jay

PA American Home Products Corporation, USA

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804267	A1	19980205	WO 1997-US12789	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

AU 9738886	A1	19980220	AU 1997-38886	19970723
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PRAI US 1996-687855 19960726

WO 1997-US12789 19970723

AB This invention provides a method of contraception which comprises administering to a female of child-bearing age a combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinylestradiol for 23-25 days beginning on day 1 of the **menstrual** cycle; wherein the same dosage of the progestin and estrogen combination is administered in each of the 23-25 days, followed by the administration of an estrogen at a daily dosage equiv. in estrogenic activity to 5-15 .mu.g ethinylestradiol for 3-5 days, such that the no. of days of administration

of the progestin and estrogen combination plus the no. of days of administration of estrogen is equal to 28 per **menstrual** cycle. For example, during the first 23-25 days of the **menstrual** cycle, a pill contg. trimegestone 125 and ethinylestradiol 15 .mu.g is administered and during the last 3-5 days of the **menstrual** cycle, a pill contg. 15 .mu.g ethinylestradiol is administered.

IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol

67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (progestin/estrogen oral contraceptives)

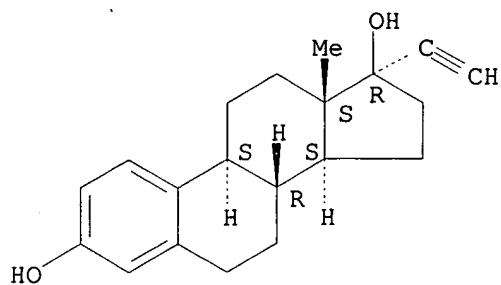
RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Searched by John Dantzman

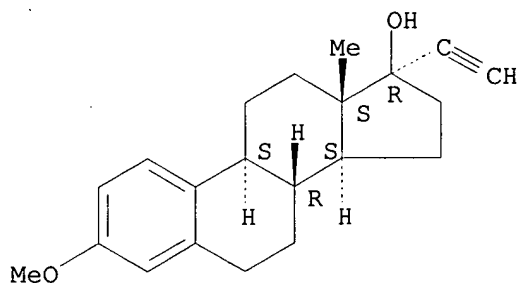
308-4488



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
(CA INDEX NAME)

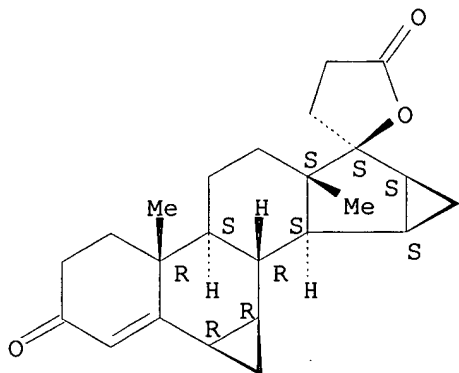
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-
furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-
hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 6

L43 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2000 ACS
AN 1998:98327 HCAPLUS
DN 128:158935
TI Progestin/estrogen oral contraceptives
IN Gast, Michael Jay
PA American Home Products Corporation, USA
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804266	A1	19980205	WO 1997-US12788	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9739616	A1	19980220	AU 1997-39616	19970723
PRAI	US 1996-688177		19960726		
	WO 1997-US12788		19970723		
AB	A method of contraception is provided which comprises administering to a female of child bearing age for 28 consecutive days, a first phase combination of a progestin at a daily dosage of 40-500 .mu.g				
	trimegestone,				
	250 .mu.g-4 mg dienogest, and 250 .mu.g-4 mg drospirenone, and an				
	estrogen				
	at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol for 9-13 days beginning on day 1 of the menstrual cycle, wherein the same dosage of the progestin and estrogen combination is administered in each of the 9-13 days. A second phase combination of				
a	progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, and 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol,				
for	11-15 days beginning on the day immediately following the last day of administration of the first phase combination, wherein the same dosage of the progestin and estrogen combination is administered in each of the 11-15 days, and an estrogen phase estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol, for 3-5 days beginning on the day immediately following the last day of administration of the second phase combination, wherein the same dosage of the estrogen is administered in each of the 3-5 days, provided that the daily dosage				
of	second phase progestin is greater than the daily dosage of the first				
phase	progestin and that the daily dosage of the second phase estrogen. An				
oral					

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contraceptive compn. contained trimegestone 125, ethinyl estradiol 15 .mu.g, microcryst. cellulose, lactose, polacrillin potassium, magnesium stearate, Opadry pink, polyethylene glycol, and wax.

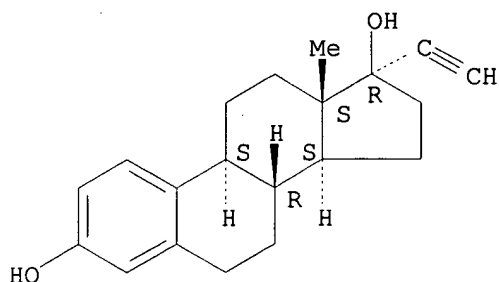
IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol 67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (progestin/estrogen oral contraceptives)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

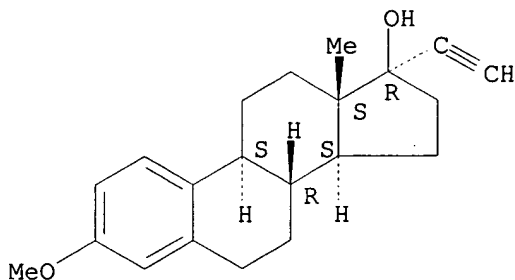
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI) (CA INDEX NAME)

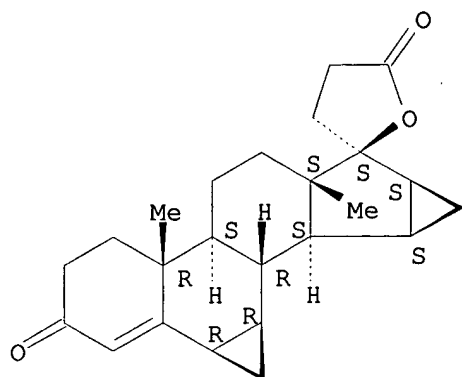
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 7

L43 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:98326 HCAPLUS

DN 128:158934

TI Biphasic contraceptive method and kit comprising a combination of a progestin and estrogen

IN Gast, Michael Jay

PA American Home Products Corporation, USA

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804265	A1	19980205	WO 1997-US12787	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2261748	AA	19980205	CA 1997-2261748	19970723
	AU 9740435	A1	19980220	AU 1997-40435	19970723
	EP 921804	A1	19990616	EP 1997-938011	19970723
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
	CN 1226167	A	19990818	CN 1997-196684	19970723
PRAI	US 1996-690422		19960726		
	WO 1997-US12787		19970723		

AB A method of contraception is provided which comprises administering to a female of child bearing age for 23-25 consecutive days, a first phase combination of a progestin at a daily dosage of 40-500 .mu.g

trimegestone,

250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol for 9-13 days beginning on day 1 of the **menstrual** cycle, wherein the same dosage of the progestin and estrogen combination is administered in each of the 9-13 days, and a second phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250

.mu.g-4

mg dienogest, or 250 .mu.g-4 mg drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol,

for

11-15 days beginning on the day immediately following the last day of administration of the first phase combination, wherein the same dosage of the progestin and estrogen combination is administered in each of the 11-15 days, provided that the daily dosage of second phase progestin is greater than the daily dosage of the first phase progestin and that the daily dosage of the second phase estrogen is greater than or equal to the daily dosage of the first phase estrogen. An oral contraceptive compn. contained trimegestone 125, ethinyl estradiol 10 .mu.g, microcryst.

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cellulose, lactose, polacrillin potassium, magnesium stearate, Opadry pink, polyethylene glycol, and wax.

IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol

67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU

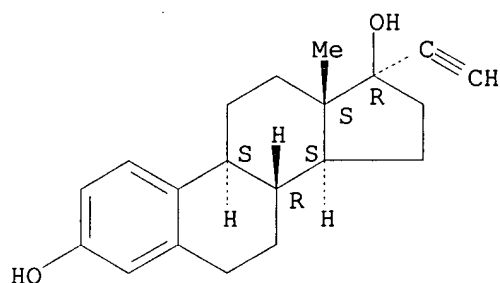
(Therapeutic use); BIOL (Biological study); USES (Uses)

(biphasic contraceptive method and kit comprising combination of progestin and estrogen)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

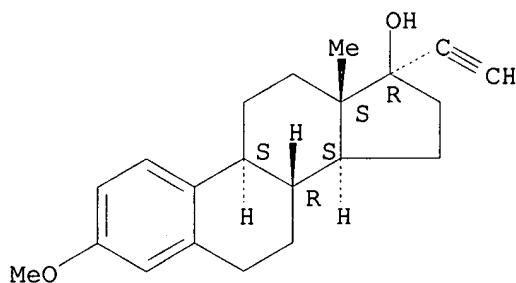
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI) (CA INDEX NAME)

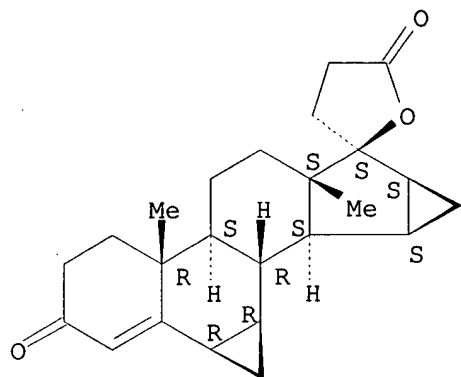
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 8

L43 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:98311 HCAPLUS

DN 128:158929

TI Oral contraceptives containing combination of a progestin and an estrogen

IN Gast, Michael Jay

PA American Home Products Corporation, USA

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9804246	A2	19980205	WO 1997-US12785	19970723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9738885	A1	19980220	AU 1997-38885	19970723

PRAI US 1996-690439 19960726

WO 1997-US12785 19970723

AB A method of contraception is provided which comprises administering to a female of child bearing age for 23-25 consecutive days: a first phase combination of a progestin at a daily dosage of 40-500 .mu.g

trimegestone,

250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg .mu.g drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol for 3-8 days beginning on day 1 of the **menstrual** cycle, wherein the same dosage of the progestin and estrogen combination is administered in each of the 3-8 days; a second phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg .mu.g drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol, for 4-15 days beginning on the day immediately following the last day of administration of the first phase combination, wherein the same dosage of the progestin and estrogen combination is administered in each of the 4-15 days. A third phase combination of a progestin at a daily dosage of 40-500 .mu.g trimegestone, 250 .mu.g-4 mg dienogest, or 250 .mu.g-4 mg .mu.g drospirenone, and an estrogen at a daily dosage equiv. in estrogenic activity to 10-20 .mu.g ethinyl estradiol, for 4-15 days beginning on the day immediately following the last day of administration of the second phase combination, wherein the same dosage

of

the progestin and estrogen combination is administered in each of the

4-15

days; and an estrogen phase estrogen at a daily dosage equiv. in estrogenic activity to 5-20 .mu.g ethinyl estradiol, for 3-5 days beginning on the day immediately following the last day of administration of the third phase combination, wherein the same dosage of the estrogen

is

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administered in each of the 3-5 days, provided that the daily dosage of the combination administered in the first phase is not the same as the daily dosage of the combination administered in the second phase and that the daily dosage of the combination administered in the second phase is not the same as the daily dosage of the combination administered in the third phase. An oral contraceptive compn. contained trimegestone 125, ethinyl estradiol 15 .mu.g, microcrystalline cellulose, lactose, potassium polacrillin, magnesium stearate, Opadry pink, PEG-1500, was E, and water q.s.

IT 57-63-6, Ethinyl estradiol 72-33-3, Mestranol

67392-87-4, Drospirenone

RL: BAC (Biological activity or effector, except adverse); THU

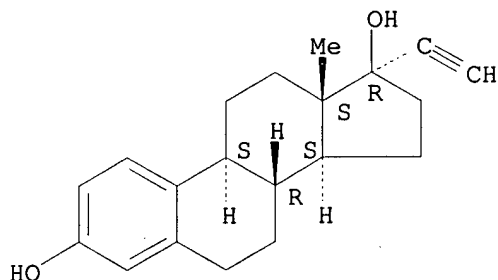
(Therapeutic use); BIOL (Biological study); USES (Uses)

(oral contraceptives contg. combination of progestin and estrogen)

RN 57-63-6 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)

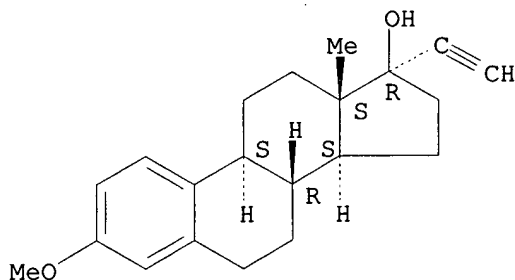
Absolute stereochemistry.



RN 72-33-3 HCAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yn-17-ol, 3-methoxy-, (17.alpha.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



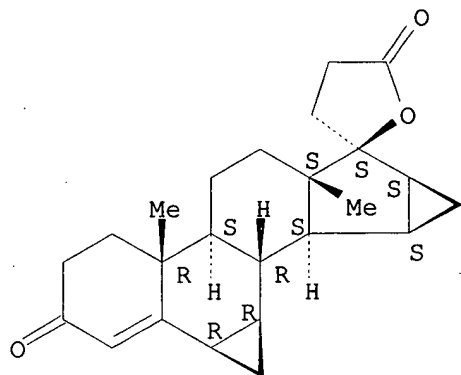
RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Searched by John Dantzman

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=> d bib abs hitstr 9

L43 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1997:105218 HCAPLUS

DN 126:122465

TI Contraceptive hormonal combination, kit, and method

IN Schmidt-Gollwitzer, Karin; Klemann, Walter

PA Schering A.-G., Germany

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

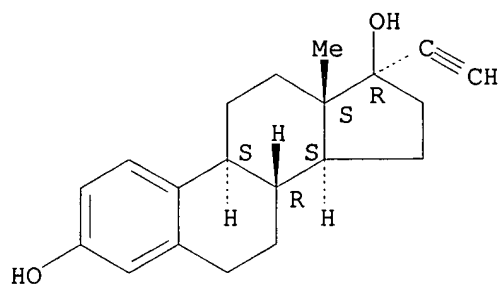
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19525017	A1	19970102	DE 1995-19525017	19950628
	WO 9701342	A1	19970116	WO 1996-DE1192	19960627
	W: AU, BR, CA, CN, CZ, FI, HU, IL, JP, KR, MX, NO, NZ, PL, RU, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	CA 2225724	AA	19970116	CA 1996-2225724	19960627
	AU 9663528	A1	19970130	AU 1996-63528	19960627
	EP 835114	A1	19980415	EP 1996-922739	19960627
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1189101	A	19980729	CN 1996-195091	19960627
	BR 9609317	A	19990706	BR 1996-9317	19960627
	JP 11508538	T2	19990727	JP 1996-504097	19960627
	NO 9706067	A	19980227	NO 1997-6067	19971223
PRAI	DE 1995-19525017		19950628		
	WO 1996-DE1192		19960627		
AB	A 2-stage combination for hormonal contraception comprises 30-84 daily dosage units of a hormone combination administered to women in 2 stages; in stage 1, an estrogen is administered in combination with a gestagen in an amt. at least sufficient to inhibit ovulation, and in stage 2, only				
the	estrogen is administered. Stage 1 lasts 25-77 days, and begins on day 1 of the menstrual cycle; stage 2 lasts 5, 6, or 7 days. A dosage unit is thus taken on every day of the cycle. The hormones may also be administered continuously in equiv. amts., e.g. via a transdermal patch. This regimen provides highly effective contraception at very low estrogen and total hormone doses, complete control of the menstrual cycle, and a low incidence of follicle development, and minimizes breakthrough bleeding, spotting, and cardiovascular side effects... Suitable daily dosages in stage 1 are 1.0-6.0 mg 17.beta.-estradiol and 0.05-0.075 mg Gestodene, and in stage 2, 1.0-6.0 mg 17.beta.-estradiol.				
IT	57-63-6, Ethynylestradiol 67392-87-4				
	RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)				
	(contraceptive hormonal combination, kit, and method)				
RN	57-63-6 HCAPLUS				
CN	19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)				

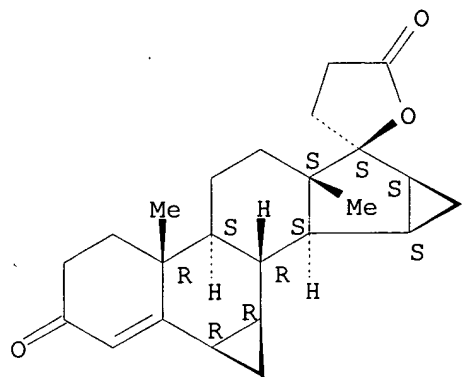
Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 10

L43 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2000 ACS

AN 1995:902894 HCAPLUS

DN 123:296590

TI Estrogen-gestagen combination for hormonal contraception

IN Lachnit-Fixson, Ursula; Duesterberg, Bernd; Spona, Juergen

PA Schering A.-G., Germany

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

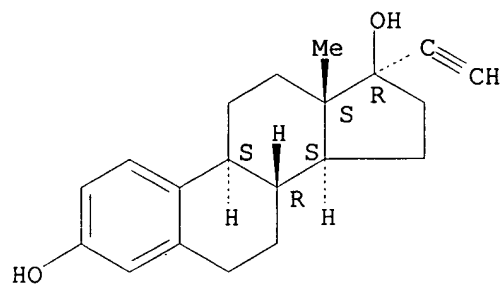
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4411585	A1	19951005	DE 1994-4411585	19940330
	WO 9526730	A1	19951012	WO 1995-EP1190	19950330
	W: AU, BG, BR, CA, CN, CZ, EE, FI, HU, JP, KR, LT, LV, MX, NO, NZ, PL, RO, RU, SI, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9520735	A1	19951023	AU 1995-20735	19950330
	EP 750501	A1	19970102	EP 1995-913171	19950330
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE	HU 75521	A2	19970528	HU 1996-2657	19950330
	BR 9507251	A	19970902	BR 1995-7251	19950330
	CN 1159161	A	19970910	CN 1995-193056	19950330
	JP 09511243	T2	19971111	JP 1995-525409	19950330
	FI 9603831	A	19961129	FI 1996-3831	19960925
	NO 9604089	A	19961107	NO 1996-4089	19960927
	US 5756490	A	19980526	US 1996-718401	19961216
	AU 9912127	A1	19990325	AU 1999-12127	19990115
PRAI	DE 1994-4411585		19940330		
	DE 1994-441585		19940330		
	AU 1995-20735		19950330		
	WO 1995-EP1190		19950330		
AB	An oral contraceptive system comprises a series of 23-24 daily dosage units contg. an estrogen and an ovulation-inhibiting amt. of a gestagen, to be followed by a series of 4-10 daily dosage units contg. an estrogen alone. The dosages are such as to minimize the estrogen and total hormone contents of each dosage unit while maintaining high contraceptive effectiveness and menstrual cycle control with low incidence of follicle development and side effects. Typical daily dosages are 1.0-4.0 mg 17.beta.-estradiol valerate and 0.05-0.075 mg Gestoden.				
IT	57-63-6, Ethynylestradiol 67392-87-4				
	RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (estrogen-gestagen combination for hormonal contraception)				
RN	57-63-6 HCAPLUS				
CN	19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17.alpha.)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.



RN 67392-87-4 HCAPLUS

CN Spiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'(5'H)-furan]-3,5'(2H)-dione, 1,3',4',6,7,8,9,10,11,12,13,14,15,16,20,21-hexadecahydro-10,13-dimethyl-, (2'S,6R,7R,8R,9S,10R,13S,14S,15S,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

